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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	3	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	4	MAR 31	CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS	5	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	6	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	7	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	8	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	9	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	10	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	11	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	12	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	13	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	14	JUN 06	KOREPAT updated with 41,000 documents
NEWS	15	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	16	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	17	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS	18	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	19	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	20	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	21	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	22	JUL 28	CA/CAplus patent coverage enhanced
NEWS	23	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS	24	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	25	JUL 28	STN Viewer performance improved
NEWS	26	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 15:28:03 ON 09 AUG 2008

FILE 'REGISTRY' ENTERED AT 15:28:45 ON 09 AUG 2008
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STRUCTURE FILE UPDATES: 8 AUG 2008 HIGHEST RN 1039687-60-9
DICTIONARY FILE UPDATES: 8 AUG 2008 HIGHEST RN 1039687-60-9

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

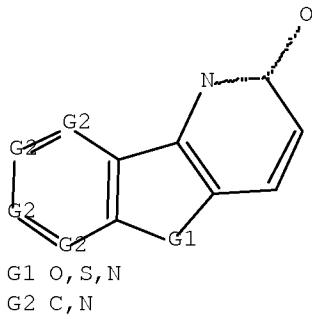
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stnqgen/stndoc/properties.html>

```
=> d saved
=> activate BART10535007/A
L1           STR
L2           924 SEA FILE=REGISTRY SSS FUL L1

=> d l1
L1 HAS NO ANSWERS
L1           STR
```



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\STNEXP\Queries\1156840.str



chain nodes :

14

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21

chain bonds :

10-16 11-14

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 7-10 8-9 8-13 10-11 11-12 12-13
16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds :

3-7 4-9 7-8 7-10 8-9 8-13 10-11 10-16 11-12 11-14 12-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21

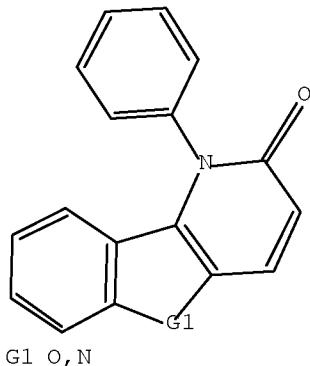
G1:O, N

Match level :

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1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom  
21:Atom
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L3 STRUCTURE UPLOADED

```
=> d 13  
L3 HAS NO ANSWERS  
L3 STR
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Structure attributes must be viewed using STN Express query preparation.

```
=> s sss sam 13  
SAMPLE SEARCH INITIATED 15:30:30 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 90 TO ITERATE  
  
100.0% PROCESSED 90 ITERATIONS 9 ANSWERS  
SEARCH TIME: 00.00.01  
  
FULL FILE PROJECTIONS: ONLINE **COMPLETE**  
BATCH **COMPLETE**  
PROJECTED ITERATIONS: 1231 TO 2369  
PROJECTED ANSWERS: 9 TO 360
```

L4 9 SEA SSS SAM L3

```
=> s sss sam 13 subset=L2  
SAMPLE SUBSET SEARCH INITIATED 15:31:15 FILE 'REGISTRY'  
SAMPLE SUBSET SCREEN SEARCH COMPLETED - 12 TO ITERATE  
  
100.0% PROCESSED 12 ITERATIONS 9 ANSWERS  
SEARCH TIME: 00.00.01  
  
PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE**  
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 33 TO 447  
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 9 TO 360
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L5 9 SEA SUB=L2 SSS SAM L3

=> s sss full l3 subset=L2
FULL SUBSET SEARCH INITIATED 15:31:49 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 320 TO ITERATE

100.0% PROCESSED 320 ITERATIONS 278 ANSWERS
SEARCH TIME: 00.00.01

L6 278 SEA SUB=L2 SSS FUL L3

=> save temp bart11568840/A
ENTER L#, L# RANGE, ALL, OR (END):16
ANSWER SET L6 HAS BEEN SAVED AS 'BART11568840/A'

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST 44.86 45.07

FILE 'CAPLUS' ENTERED AT 15:32:34 ON 09 AUG 2008
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FILE COVERS 1907 - 9 Aug 2008 VOL 149 ISS 7
FILE LAST UPDATED: 8 Aug 2008 (20080808/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 16
L7 17 L6

=> s 17 and (ay<2004 py<2004 or pry<2004)
NUMERIC VALUE NOT VALID 'AY'
Numeric values may contain 1-8 significant figures. If range notation is used, both the beginning and the end of the range must be specified, e.g., '250-300/MW'. Expressions such as '250-/MW' are not allowed. To search for values above or below a given number, use the >, =>, <, or <= operators, e.g., 'MW => 250'. Text terms cannot be used in numeric expressions. If you specify a unit, it must be dimensionally correct for that field code. To see the unit

designations for field codes in the current file, enter "DISPLAY UNIT ALL" at an arrow prompt (=>).

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4781086 AY<2004
24005696 PY<2004
4252034 PRY<2004

L8 6 L7 AND (AY<2004 OR PY<2004 OR PRY<2004)

=> s 17 and (ay<2005 or py<2005 or pry<2005)
5106376 AY<2005
25109025 PY<2005
4581875 PRY<2005

L9 11 L7 AND (AY<2005 OR PY<2005 OR PRY<2005)

=> s 19
L10 17 L9

=> s 110 and (ay<2005 or py<2005 or pry<2005)
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L11 11 L10 AND (AY<2005 OR PY<2005 OR PRY<2005)

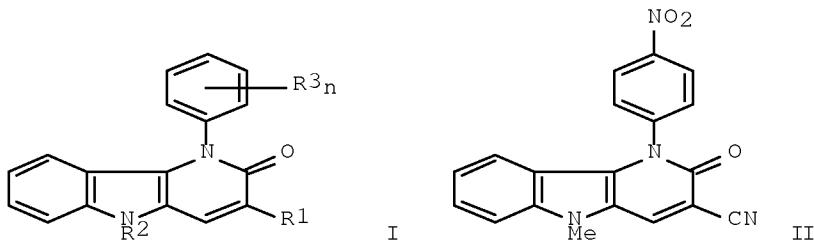
=> d ibib abs hitstr 1-11

L11 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1241186 CAPLUS Full-text
DOCUMENT NUMBER: 143:477858
TITLE: Preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compositions for the treatment of HIV-infection
INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Van De Vreken, Wim; Kindermans, Natalie Maria Francisca; Canard, Maxime Francis Jean-Marie Ghislain; Hertogs, Kurt; Bettens, Eva; De Vroey, Veronique Corine Paul; Jochmans, Dirk Edward Desire; Wigerinck, Piet Tom Bert Paul; Wang, Jing; Tahri, Abdellah; Surleraux, Dominique Louis Nestor Ghislain
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005110411	A1	20051124	WO 2005-EP52266	20050517 <-
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,			

EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG
 AU 2005244449 A1 20051124 AU 2005-244449 20050517 <--
 CA 2563601 A1 20051124 CA 2005-2563601 20050517 <--
 EP 1750708 A1 20070214 EP 2005-747916 20050517 <--
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 HR, LV, MK, YU
 CN 1953751 A 20070425 CN 2005-80015688 20050517 <--
 BR 2005011144 A 20071127 BR 2005-11144 20050517 <--
 JP 2007538053 T 20071227 JP 2007-517256 20050517 <--
 IN 2006DN06106 A 20070831 IN 2006-DN6106 20061019 <--
 US 20070249655 A1 20071025 US 2006-569111 20061114 <--
 MX 2006PA13316 A 20070202 MX 2006-PA13316 20061116 <--
 KR 2007011588 A 20070124 KR 2006-725921 20061208 <--
 PRIORITY APPLN. INFO.: EP 2004-102173 A 20040517 <--
 US 2004-102173 A 20040517 <--
 WO 2005-EP52266 W 20050517

OTHER SOURCE(S): CASREACT 143:477858; MARPAT 143:477858
 GI



AB Pyrido[3,2-b]indoles, such as I [R1 = H, CN, halogen, alkylcarbonyl, etc.; R2 = H, (hetero)alkyl, alkenyl, etc.; R3 = NO₂, CN, OH, (un)substituted amino, etc.; n = 1-3; and their N-oxides, salts, stereoisomers, racemic mixts., prodrugs, esters or metabolites thereof], were prepared for therapeutic use and anti-HIV agents. Thus, pyrido[3,2-b]indole II was prepared via a five step synthetic scheme starting from the reaction of 1-acetyl-3-hydroxyindole with 4-nitroaniline. The prepared pyrido[3,2-b]indoles were tested for inhibition of HIV reverse transcriptase, for metabolism using human liver microsomal fractions and for anti-HIV activity. Thus, I and their pharmaceutical compns. are useful for the treatment of retroviral infections such as HIV infection, in particular, in the treatment of infections with multi-drug resistant retroviruses.

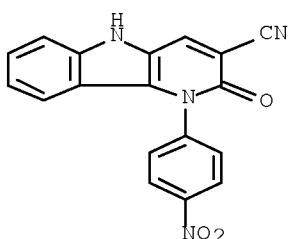
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 698397-45-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical
comps. for the treatment of HIV-infection)

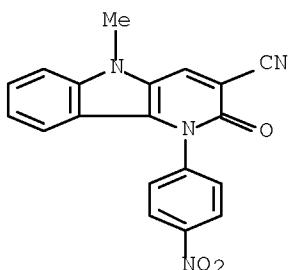
RN 304465-35-8 CAPLUS

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(CA INDEX NAME)



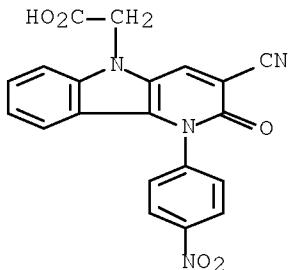
RN 352548-47-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-45-1 CAPLUS

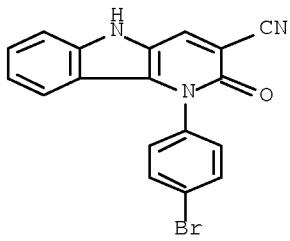
CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-64-4 CAPLUS

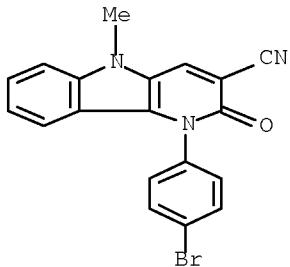
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-2-oxo-

(CA INDEX NAME)



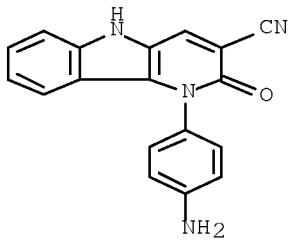
RN 698396-65-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



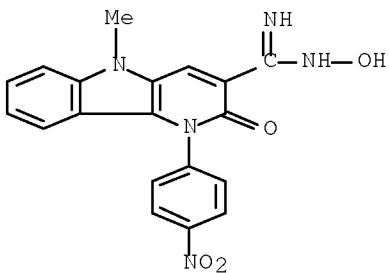
RN 698396-80-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)

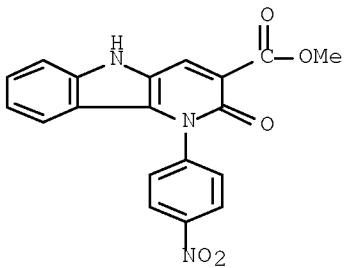


RN 698396-93-9 CAPLUS

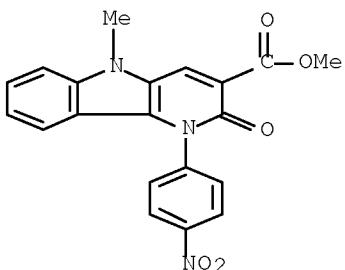
CN 1H-Pyrido[3,2-b]indole-3-carboximidamide, 2,5-dihydro-N-hydroxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



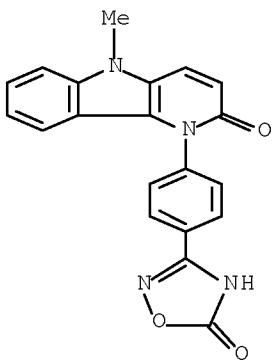
RN 698396-97-3 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



RN 698396-98-4 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)

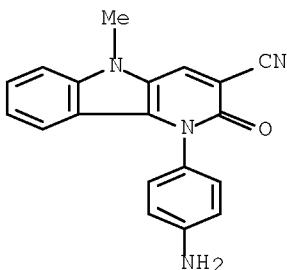


RN 698397-05-6 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



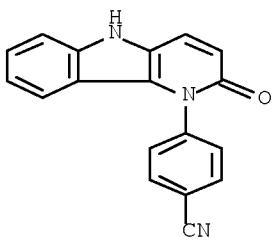
RN 698397-11-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



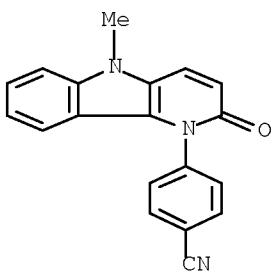
RN 698397-15-8 CAPLUS

CN Benzonitrile, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



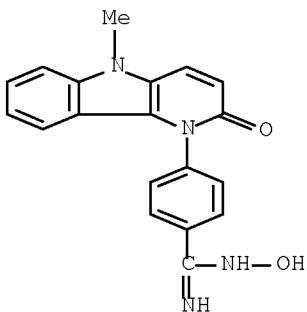
RN 698397-18-1 CAPLUS

CN Benzonitrile, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



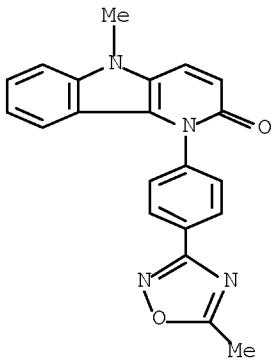
RN 698397-19-2 CAPLUS

CN Benzenecarboximidamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N-hydroxy- (CA INDEX NAME)



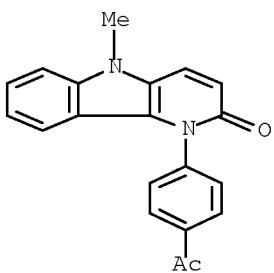
RN 698397-25-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



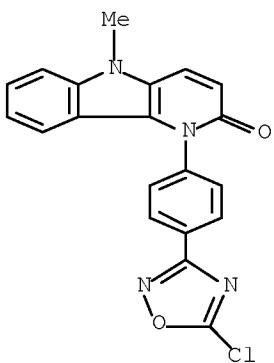
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CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-acetylphenyl)-1,5-dihydro-5-methyl- (CA INDEX NAME)



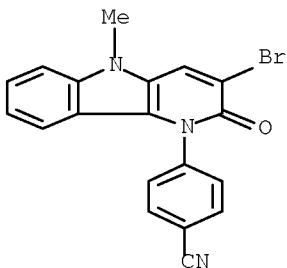
RN 698397-43-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-chloro-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



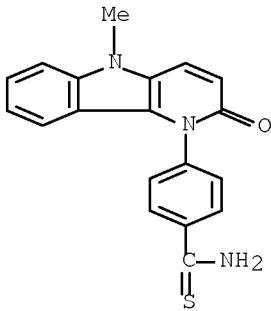
RN 698397-44-3 CAPLUS

CN Benzonitrile, 4-(3-bromo-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



RN 698397-45-4 CAPLUS

CN Benzenecarbothioamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)

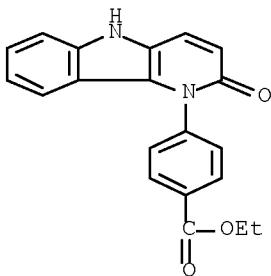


IT 698397-13-6

RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use);
BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical
compns. for the treatment of HIV-infection)

RN 698397-13-6 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl
ester (CA INDEX NAME)



IT 698396-30-4P 698396-31-5P 698396-32-6P
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698396-75-7P 698396-76-8P 698396-77-9P
698396-78-0P 698396-79-1P 698396-81-5P
698396-82-6P 698396-83-7P 698396-84-8P
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698397-16-9P 698397-17-0P 698397-20-6P
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698397-24-9P 698397-26-1P 698397-27-2P
698397-28-3P 698397-29-4P 698397-30-7P
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698397-34-1P 698397-35-2P 698397-36-3P
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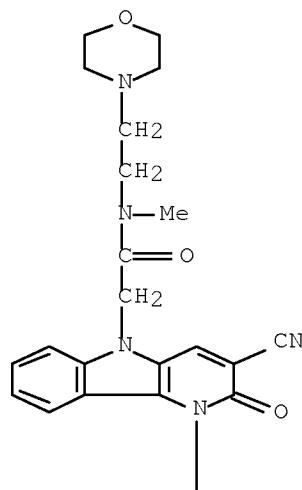
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)

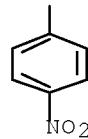
RN 698396-30-4 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetamide, 3-cyano-1,2-dihydro-N-methyl-N-[2-(4-morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

PAGE 1-A

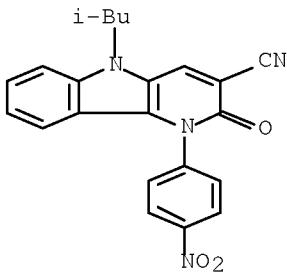


PAGE 2-A



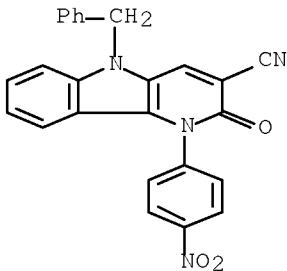
RN 698396-31-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-(2-methylpropyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



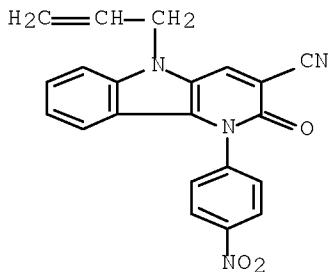
RN 698396-32-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(phenylmethyl)- (CA INDEX NAME)



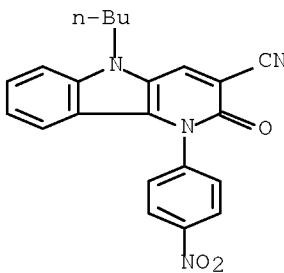
RN 698396-33-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)

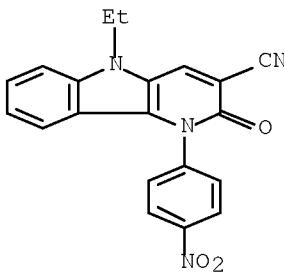


RN 698396-34-8 CAPLUS

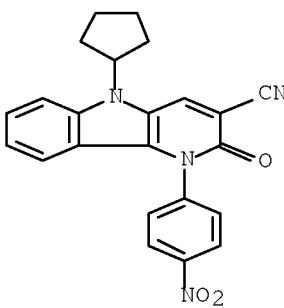
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-butyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



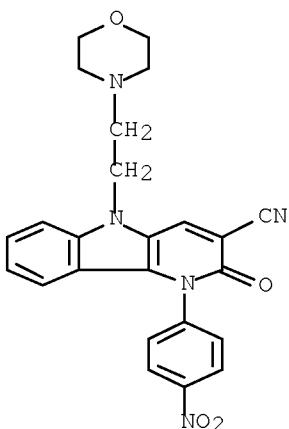
RN 698396-35-9 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-ethyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-36-0 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-cyclopentyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

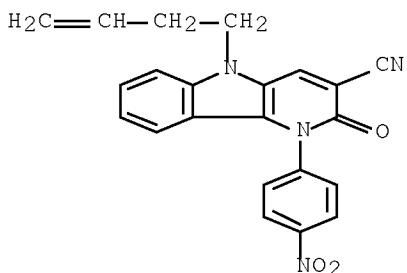


RN 698396-37-1 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



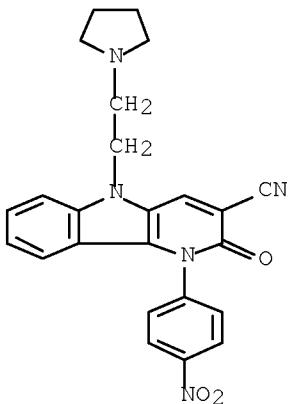
RN 698396-38-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-buten-1-yl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

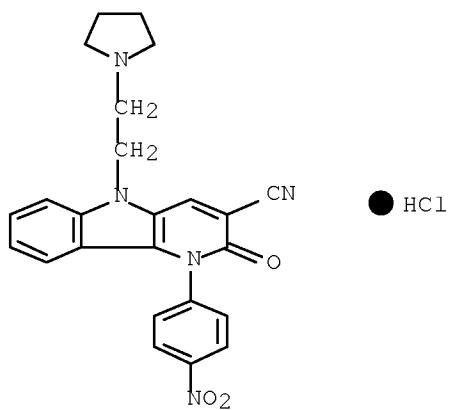


RN 698396-39-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



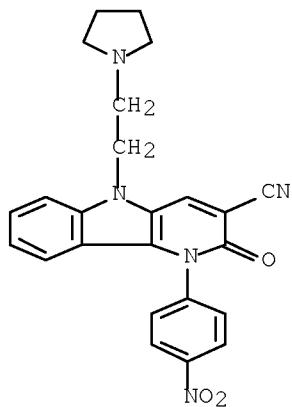
RN 698396-40-6 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, hydrochloride (1:1) (CA INDEX NAME)



RN 698396-41-7 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, ethanedioate (1:1) (CA INDEX NAME)

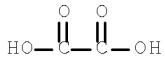
CM 1

CRN 698396-39-3
CMF C24 H21 N5 O3



CM 2

CRN 144-62-7
CMF C2 H2 O4



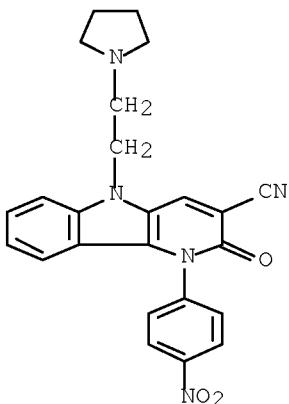
RN 698396-42-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 698396-39-3

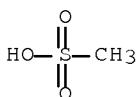
CMF C24 H21 N5 O3



CM 2

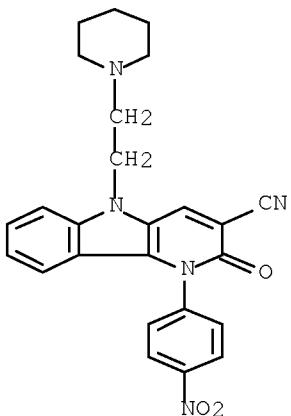
CRN 75-75-2

CMF C H4 O3 S



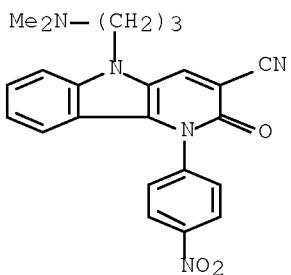
RN 698396-43-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



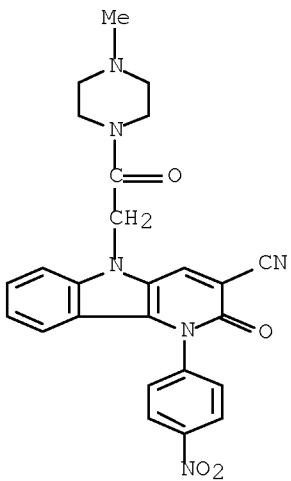
RN 698396-44-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(dimethylamino)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



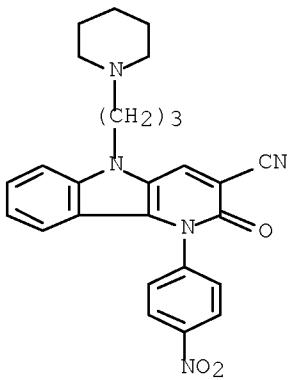
RN 698396-46-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-methyl-1-piperazinyl)-2-oxoethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



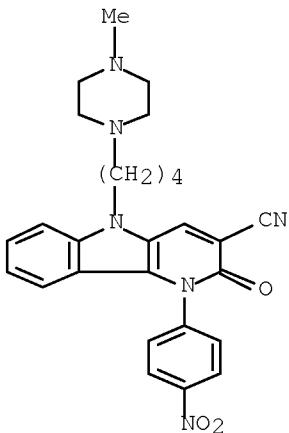
RN 698396-47-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-piperidinyl)propyl]- (CA INDEX NAME)



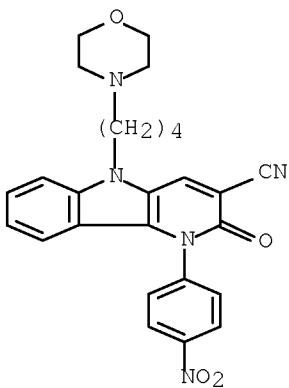
RN 698396-48-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-methyl-1-piperazinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



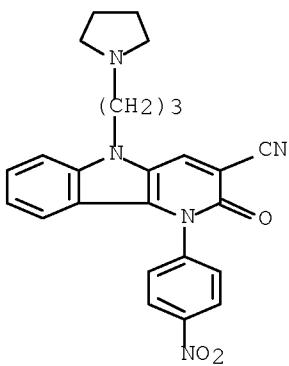
RN 698396-49-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-morpholinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



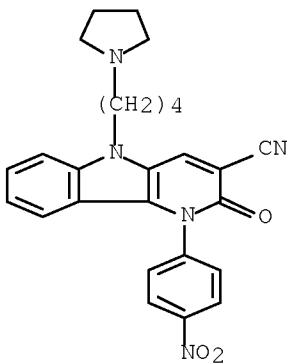
RN 698396-50-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-pyrrolidinyl)propyl]- (CA INDEX NAME)



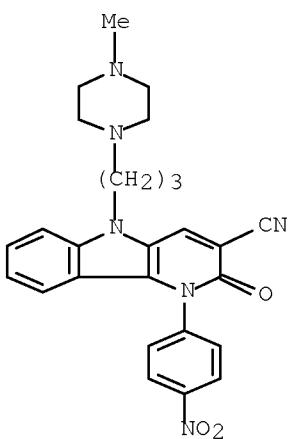
RN 698396-51-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-pyrrolidinyl)butyl]- (CA INDEX NAME)

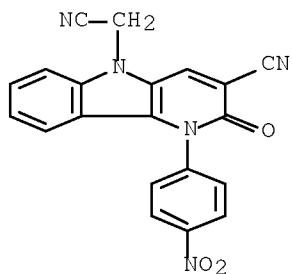


RN 698396-52-0 CAPLUS

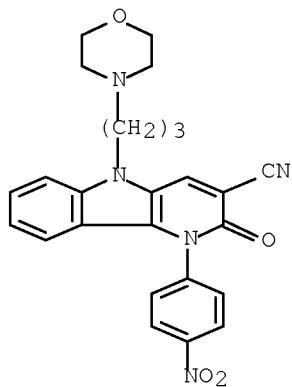
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-methyl-1-piperazinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



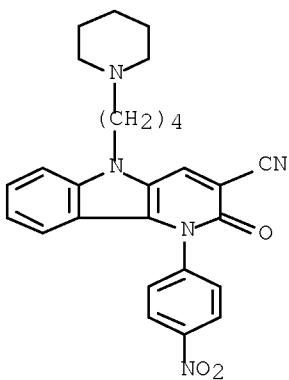
RN 698396-53-1 CAPLUS
CN 5H-Pyrido[3,2-b]indole-5-acetonitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-54-2 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-morpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

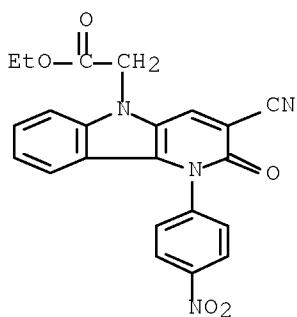


RN 698396-55-3 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-piperidinyl)butyl]- (CA INDEX NAME)



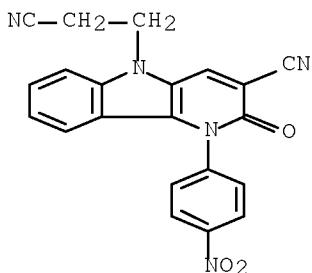
RN 698396-56-4 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-, ethyl ester (CA INDEX NAME)



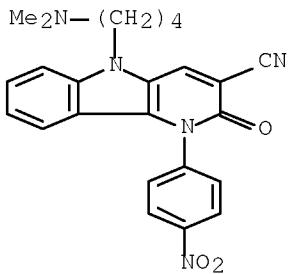
RN 698396-57-5 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-propanenitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



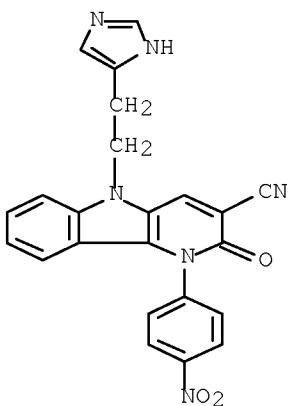
RN 698396-58-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[4-(dimethylamino)butyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



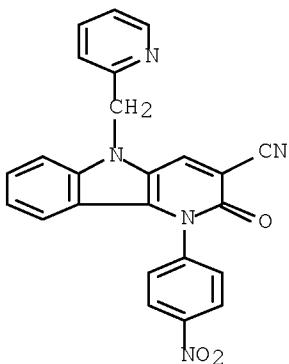
RN 698396-59-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(1H-imidazol-5-yl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



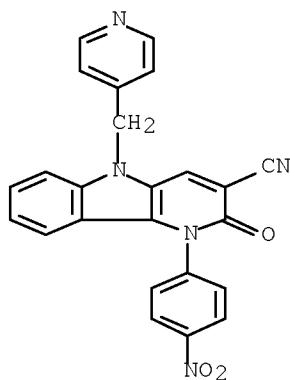
RN 698396-60-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-pyridinylmethyl)- (CA INDEX NAME)



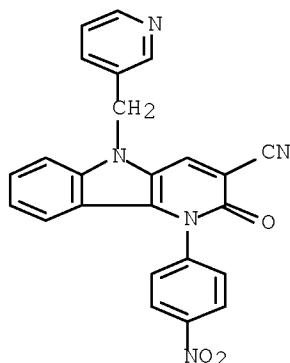
RN 698396-61-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(4-pyridinylmethyl)- (CA INDEX NAME)



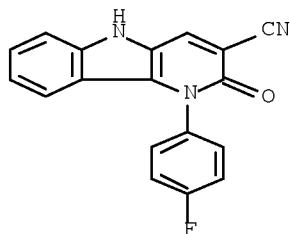
RN 698396-62-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(3-pyridinylmethyl)- (CA INDEX NAME)

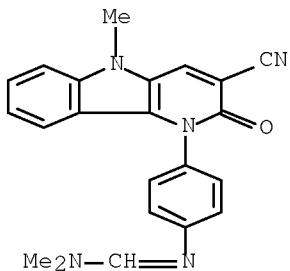


RN 698396-63-3 CAPLUS

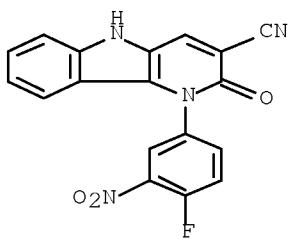
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



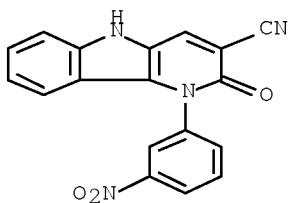
RN 698396-66-6 CAPLUS
CN Methanimidamide, N'-[4-(3-cyano-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-N,N-dimethyl- (CA INDEX NAME)



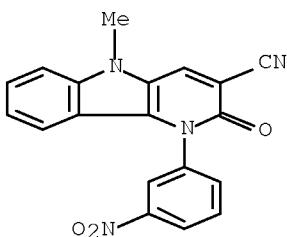
RN 698396-67-7 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluoro-3-nitrophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



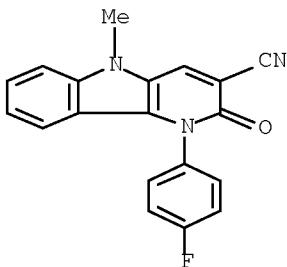
RN 698396-68-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(3-nitrophenyl)-2-oxo- (CA INDEX NAME)



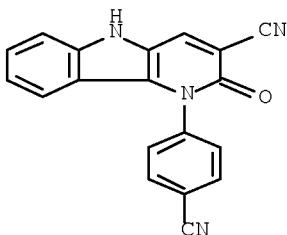
RN 698396-69-9 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(3-nitrophenyl)-2-oxo- (CA INDEX NAME)



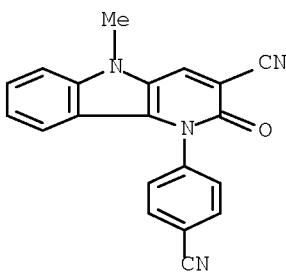
RN 698396-70-2 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



RN 698396-71-3 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)

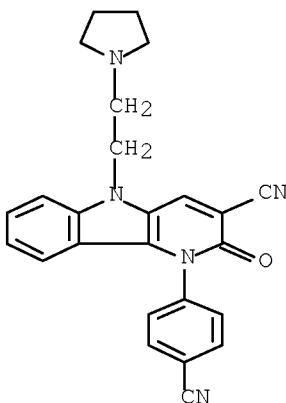


RN 698396-72-4 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



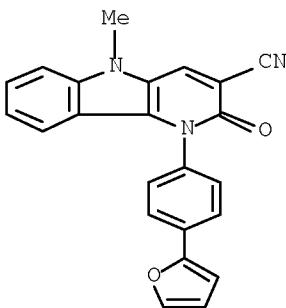
RN 698396-73-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



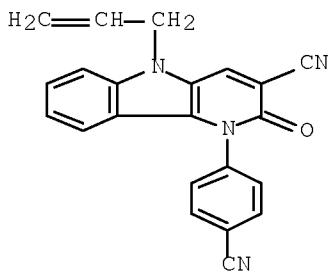
RN 698396-74-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(2-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



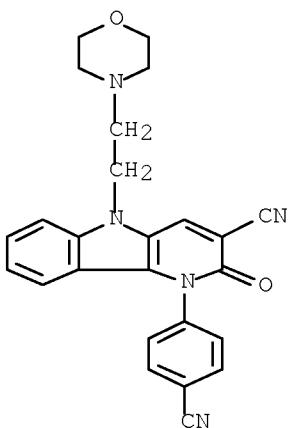
RN 698396-75-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)



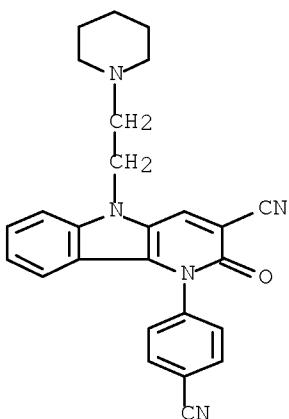
RN 698396-76-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-[2-(4-cyanophenyl)ethyl]-1H-pyrido[3,2-b]indole-3-carbonitrile (CA INDEX NAME)

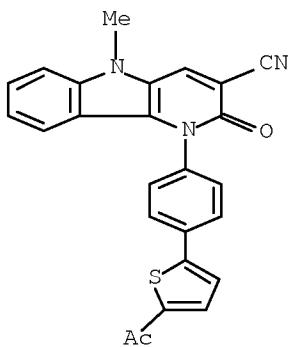


RN 698396-77-9 CAPLUS

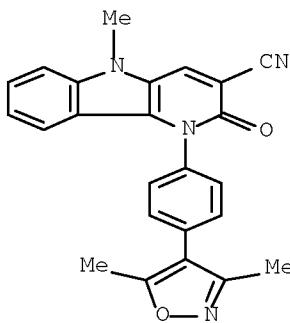
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-[2-(1-piperidinyl)ethyl]-1H-pyrido[3,2-b]indole-3-carbonitrile (CA INDEX NAME)



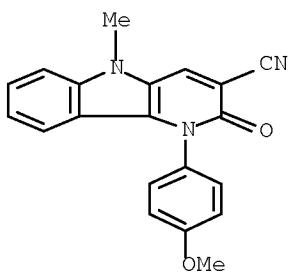
RN 698396-78-0 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(5-acetyl-2-thienyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



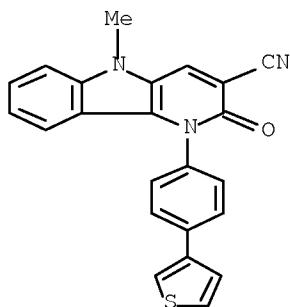
RN 698396-79-1 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3,5-dimethyl-4-isoxazolyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



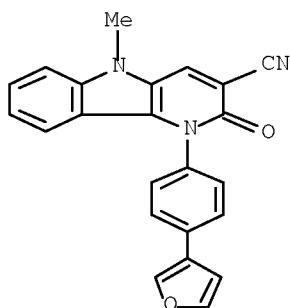
RN 698396-81-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-methoxyphenyl)-5-methyl-2-oxo- (CA INDEX NAME)



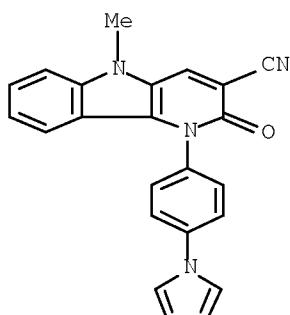
RN 698396-82-6 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(3-thienyl)phenyl]- (CA INDEX NAME)



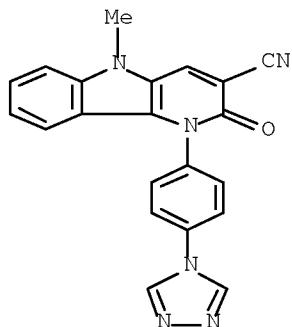
RN 698396-83-7 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



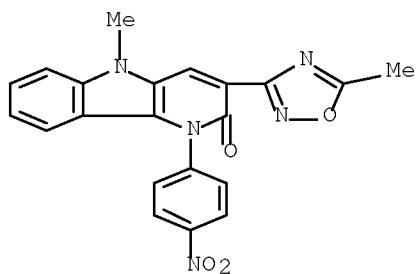
RN 698396-84-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(1H-pyrrol-1-yl)phenyl]- (CA INDEX NAME)



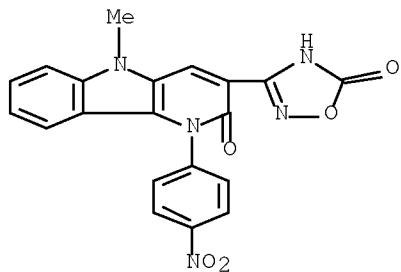
RN 698396-85-9 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(4H-1,2,4-triazol-4-yl)phenyl]- (CA INDEX NAME)



RN 698396-86-0 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-(4-nitrophenyl)- (CA INDEX NAME)

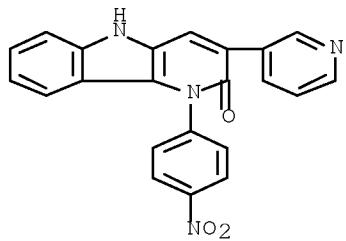


RN 698396-87-1 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)

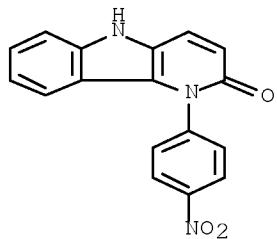


RN 698396-88-2 CAPLUS

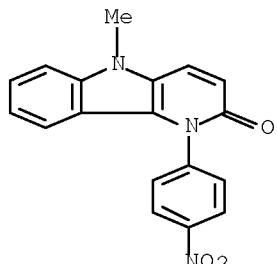
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(3-pyridinyl)-
(CA INDEX NAME)



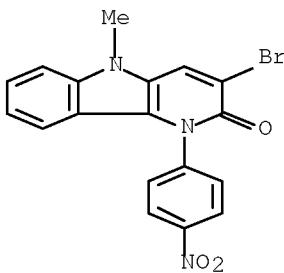
RN 698396-89-3 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)- (CA INDEX
NAME)



RN 698396-90-6 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA
INDEX NAME)

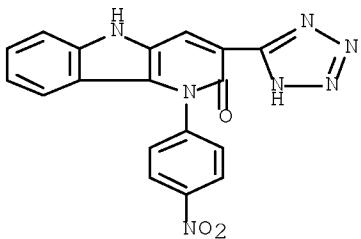


RN 698396-91-7 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-(4-
nitrophenyl)- (CA INDEX NAME)



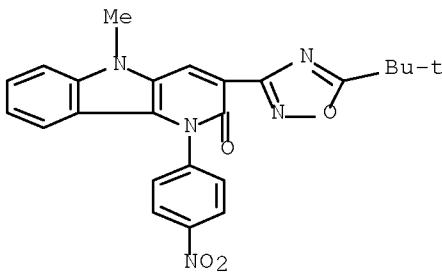
RN 698396-92-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(2H-tetrazol-5-yl)- (CA INDEX NAME)



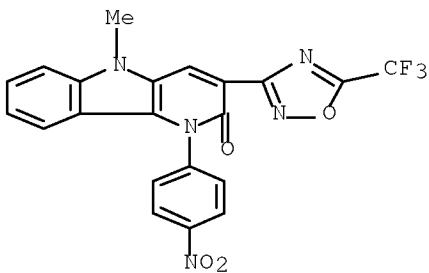
RN 698396-94-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-[5-(1,1-dimethylethyl)-1,2,4-oxadiazol-3-yl]-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)

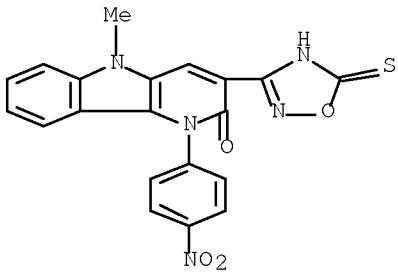


RN 698396-95-1 CAPLUS

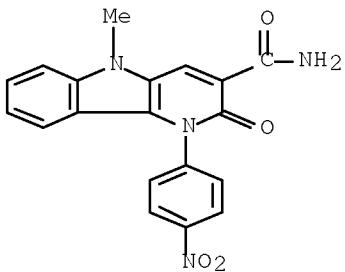
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)-3-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)



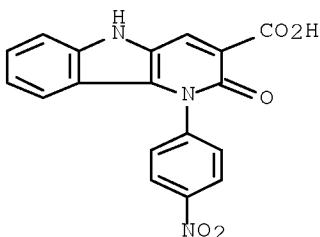
RN 698396-96-2 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-methyl-1-(4-nitrophenyl)-1,2,4-oxadiazol-3-yl)-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-1,2,4-oxadiazol-3-yl (CA INDEX NAME)



RN 698396-99-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

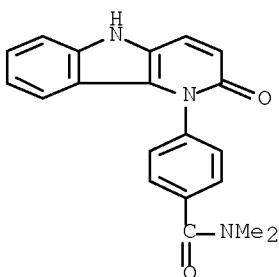


RN 698397-00-1 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



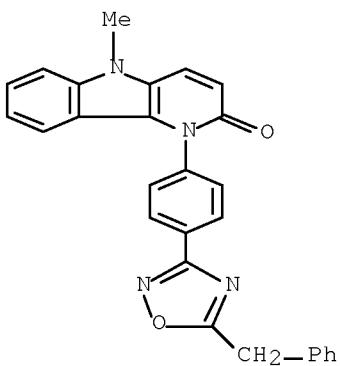
RN 698397-01-2 CAPLUS

CN Benzamide, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N,N-dimethyl-
(CA INDEX NAME)



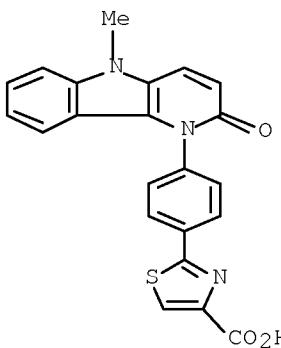
RN 698397-02-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(phenylmethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



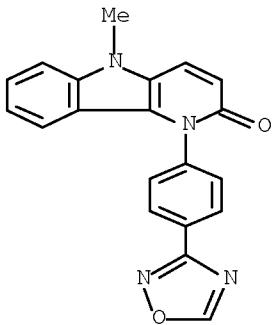
RN 698397-03-4 CAPLUS

CN 4-Thiazolecarboxylic acid, 2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]- (CA INDEX NAME)



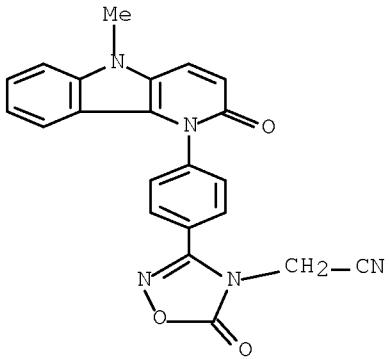
RN 698397-04-5 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



RN 698397-06-7 CAPLUS

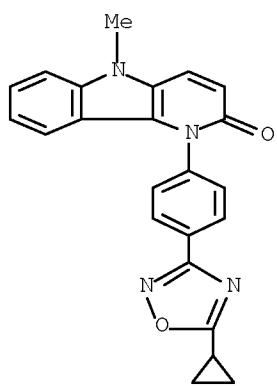
CN 1,2,4-Oxadiazole-4(5H)-acetonitrile, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-5-oxo- (CA INDEX NAME)



RN 698397-07-8 CAPLUS

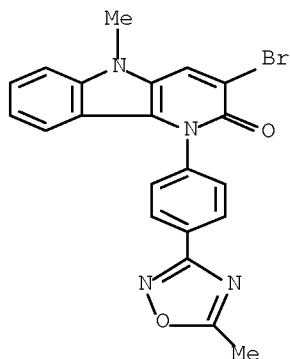
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-cyclopropyl-1,2,4-oxadiazol-3-

y1)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



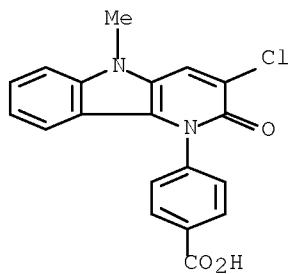
RN 698397-08-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)

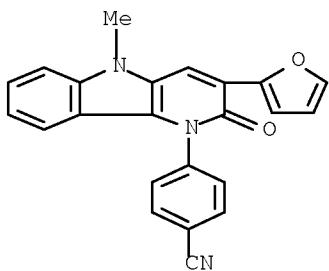


RN 698397-09-0 CAPLUS

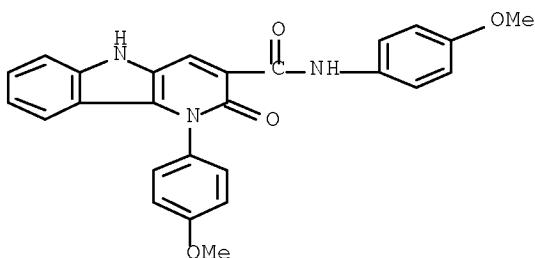
CN Benzoic acid, 4-(3-chloro-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



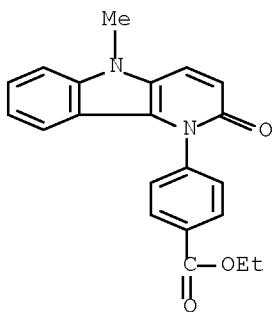
RN 698397-10-3 CAPLUS
CN Benzonitrile, 4-[3-(2-furanyl)-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl]- (CA INDEX NAME)



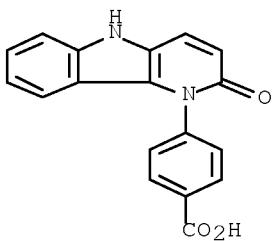
RN 698397-12-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-N,1-bis(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 698397-14-7 CAPLUS
CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl ester (CA INDEX NAME)

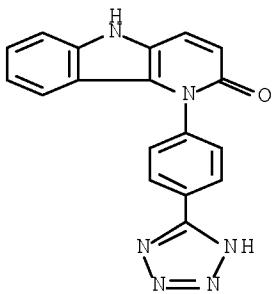


RN 698397-16-9 CAPLUS
CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



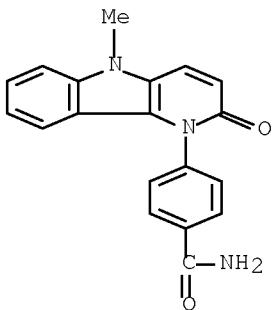
RN 698397-17-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(2H-tetrazol-5-yl)phenyl]-
(CA INDEX NAME)



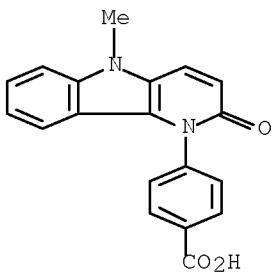
RN 698397-20-5 CAPLUS

CN Benzamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA
INDEX NAME)



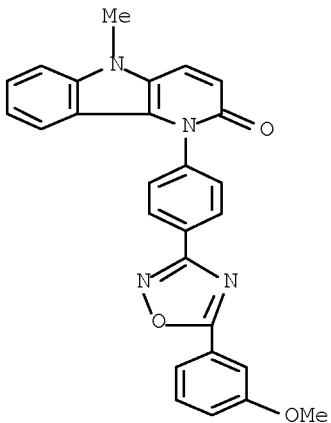
RN 698397-21-6 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-
(CA INDEX NAME)



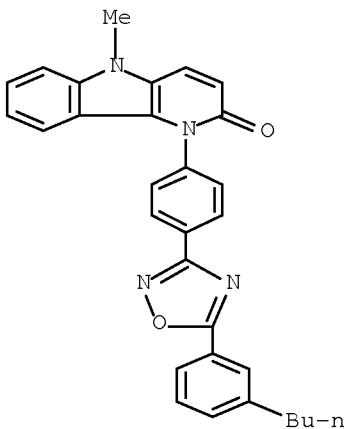
RN 698397-22-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(3-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)

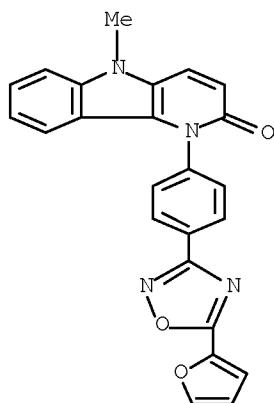


RN 698397-23-8 CAPLUS

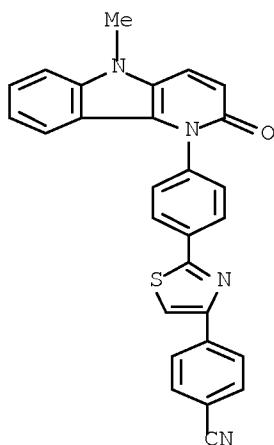
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3-butylphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



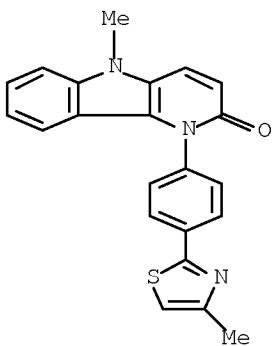
RN 698397-24-9 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(2-furanyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-26-1 CAPLUS
CN Benzonitrile, 4-[2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-4-thiazolyl]- (CA INDEX NAME)

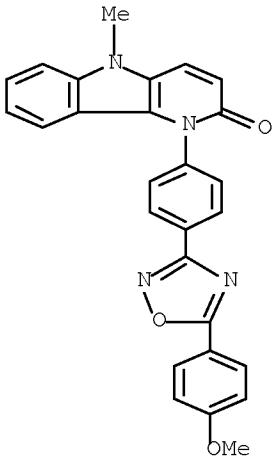


RN 698397-27-2 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(4-methyl-2-thiazolyl)phenyl]- (CA INDEX NAME)



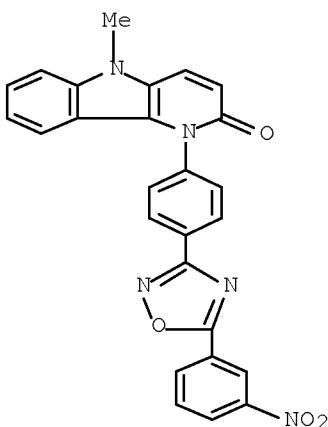
RN 698397-28-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(4-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)



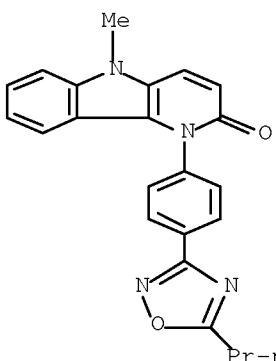
RN 698397-29-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(3-nitrophenyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



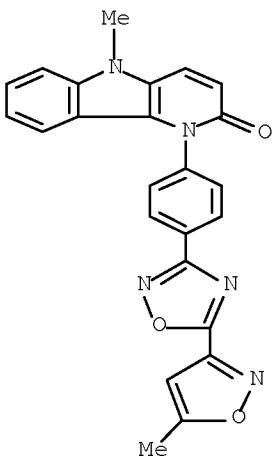
RN 698397-30-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-propyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



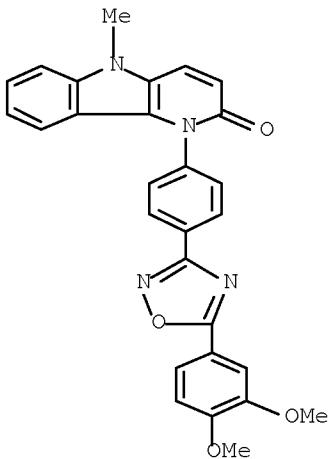
RN 698397-31-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(5-methyl-3-isoxazolyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



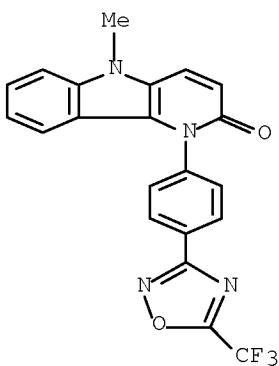
RN 698397-32-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3,4-dimethoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



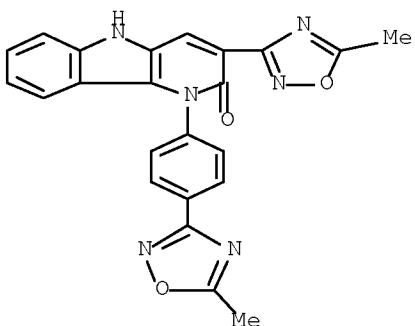
RN 698397-33-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



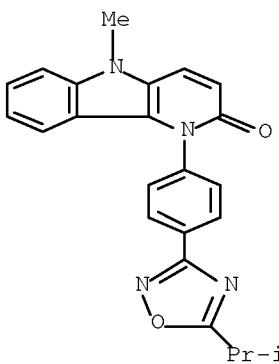
RN 698397-34-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



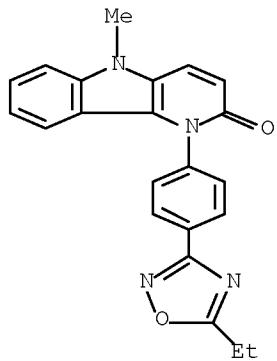
RN 698397-35-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(1-methylethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



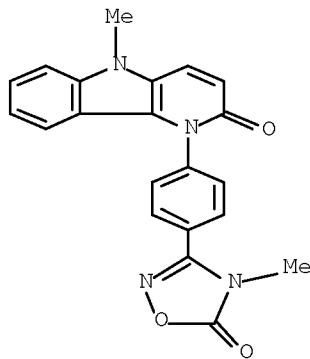
RN 698397-36-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-ethyl-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



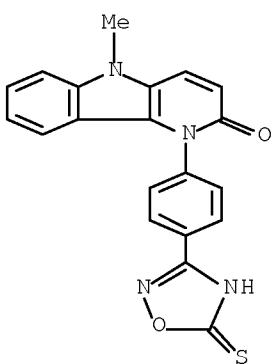
RN 698397-37-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(4,5-dihydro-4-methyl-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



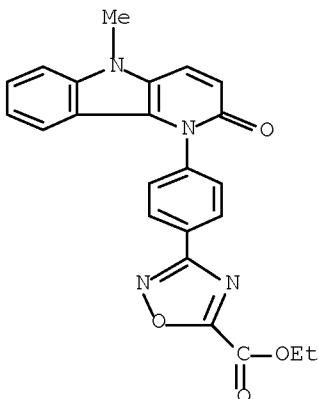
RN 698397-38-5 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-thioxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



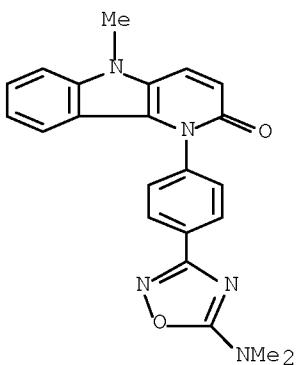
RN 698397-39-6 CAPLUS

CN 1,2,4-Oxadiazole-5-carboxylic acid, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-, ethyl ester (CA INDEX NAME)

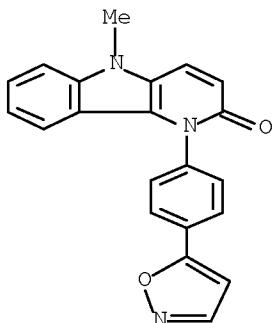


RN 698397-40-9 CAPLUS

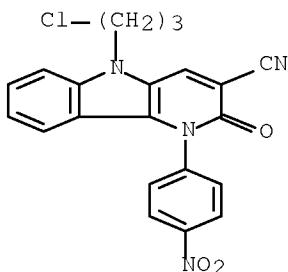
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(dimethylamino)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-42-1 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(5-isoxazolyl)phenyl]-5-methyl- (CA INDEX NAME)



IT 698397-46-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)
RN 698397-46-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-chloropropyl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1241160 CAPLUS Full-text
DOCUMENT NUMBER: 143:477857
TITLE: Preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-2-ones as inhibitors of HIV reverse transcriptase
INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Van De Vreken, Wim; Surleraux, Dominique Louis Nestor Ghislain; Vendeville, Sandrine Marie Helene; Raboisson, Pierre Jean-Marie Bernard; Wigerinck, Piet Tom Bert Paul; Peeters, Annick Ann
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

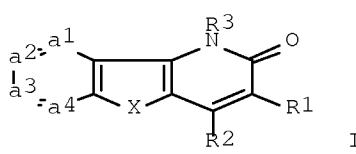
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

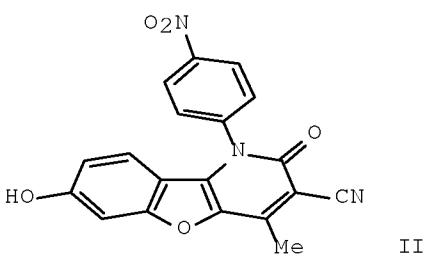
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005111044	A1	20051124	WO 2005-EP52265	20050517 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1751165	A1	20070214	EP 2005-752659	20050517 <--
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1953982	A	20070425	CN 2005-80015617	20050517 <--
BR 2005011267	A	20071127	BR 2005-11267	20050517 <--
JP 2007538052	T	20071227	JP 2007-517255	20050517 <--
IN 2006DN06230	A	20070831	IN 2006-DN6230	20061025 <--
US 20070213320	A1	20070913	US 2006-569108	20061114 <--
MX 2006PA13315	A	20070202	MX 2006-PA13315	20061116 <--
PRIORITY APPLN. INFO.:			EP 2004-102172	A 20040517 <--
			WO 2005-EP52265	W 20050517

OTHER SOURCE(S): CASREACT 143:477857; MARPAT 143:477857

GI



I



II

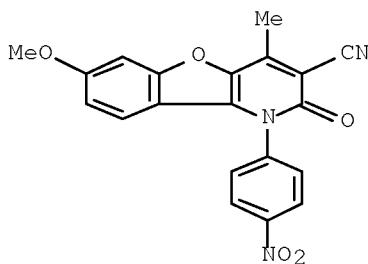
AB Title compds. represented by the formula I [wherein R1 = H, cyano, halo, aminocarbonyl, etc.; X = bivalent radical (un)substituted amino, O, S, SO, SO₂; R2 = halo, hydroxy, amino, etc.; R3 = (un)substituted Ph or (bi)cyclic aromatic heterocyclic ring system; a1:a2-a3:a4 = CH:CH-CH:CH, N:CH-CH:CH, CH:N-CH:CH, CH:CH-N:CH, CH:CH-CH:N; and the N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites thereof] were prepared as inhibitors of HIV reverse transcriptase. For example, II was provided in a multi-step synthesis starting from 2-fluoro-4-hydroxybenzonitrile. II showed

inhibition of HIV reverse transcriptase with pEC50 value of 5.5. The pharmaceutical formulations of I were also described.

IT 869789-19-5P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-2-ones as inhibitors of HIV reverse transcriptase)

RN 869789-19-5 CAPLUS

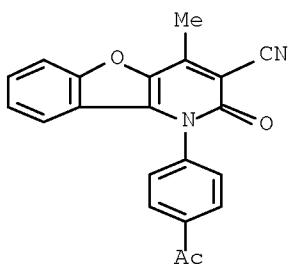
CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1,2-dihydro-7-methoxy-4-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



IT 869789-15-1P 869789-16-2P 869789-18-4P
 869789-20-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-2-ones as inhibitors of HIV reverse transcriptase)

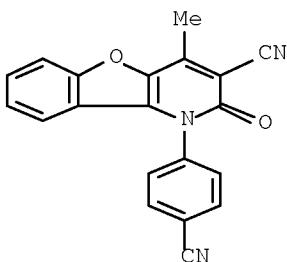
RN 869789-15-1 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1-(4-acetylphenyl)-1,2-dihydro-4-methyl-2-oxo- (CA INDEX NAME)



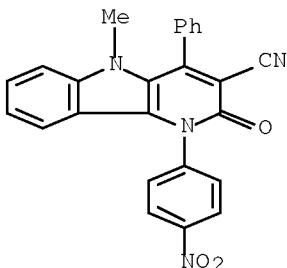
RN 869789-16-2 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1-(4-cyanophenyl)-1,2-dihydro-4-methyl-2-oxo- (CA INDEX NAME)



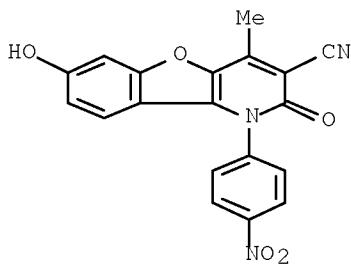
RN 869789-18-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-4-phenyl- (CA INDEX NAME)



RN 869789-20-8 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1,2-dihydro-7-hydroxy-4-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



IT 304465-35-8P 352548-47-1P

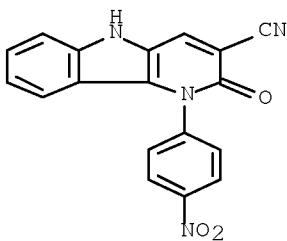
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-2-

ones as inhibitors of HIV reverse transcriptase)

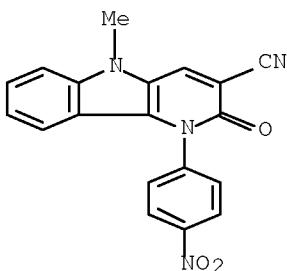
RN 304465-35-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 352548-47-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1241144 CAPLUS Full-text

DOCUMENT NUMBER: 144:6779

TITLE: Preparation of 1-heterocyclol-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs as antiviral agents

INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Raboisson, Pierre Jean-Marie Bernard; Surleraux, Dominique Louis Nestor Ghislain; Hache, Geerwin Yvonne Paul; Vendeville, Sandrine Marie Helene; Peeters, Annick Ann; Wigerinck, Piet Tom Bert Paul

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

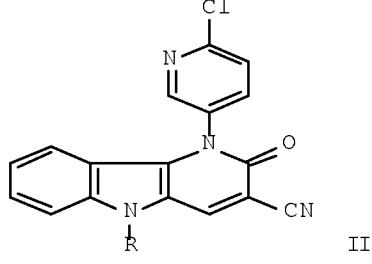
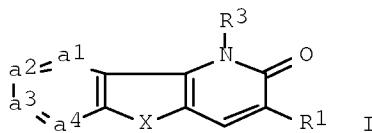
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005111047	A1	20051124	WO 2005-EP52264	20050517 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,				

LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
 NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
 SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG
 AU 2005243439 A1 20051124 AU 2005-243439 20050517 <--
 CA 2564027 A1 20051124 CA 2005-2564027 20050517 <--
 EP 1758911 A1 20070307 EP 2005-749219 20050517 <--
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA,
 HR, LV, MK, YU
 CN 1953983 A 20070425 CN 2005-80015818 20050517 <--
 BR 2005011175 A 20071204 BR 2005-11175 20050517 <--
 JP 2007538051 T 20071227 JP 2007-517254 20050517 <--
 IN 2006DN06239 A 20070831 IN 2006-DN6239 20061025 <--
 US 20070265295 A1 20071115 US 2006-568845 20061108 <--
 MX 2006PA13314 A 20070202 MX 2006-PA13314 20061116 <--
 KR 2007015608 A 20070205 KR 2006-725910 20061208 <--
 NO 2006005898 A 20070219 NO 2006-5898 20061218 <--
 PRIORITY APPLN. INFO.: EP 2004-102171 A 20040517 <--
 WO 2005-EP52264 W 20050517

OTHER SOURCE(S): CASREACT 144:6779; MARPAT 144:6779
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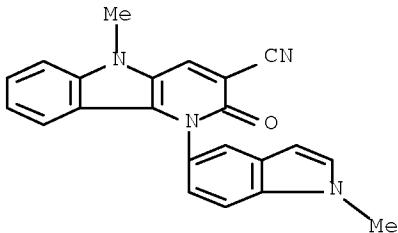


AB This invention relates to 1-heterocyclyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs I [wherein R1 = H, halo, cyano, etc.; X = O, S, SO, SO2 or (un)substituted NH; a1=a2-a3=a4 = (un)substituted -CH=CH-CH=CH-, -N=CH-CH=CH-, -CH=N-CH=CH-, -CH=CH-N=CH- or -CH=CH-CH=N-; R3 = heteroaryl, their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites], their use as HIV inhibitors, pharmaceutical compns. containing them and processes for preparing them. For instance, N-acetyl-3-hydroxyindole underwent successive coupling reaction with 6-chloro-3-pyridinamine, deacetylation with MeOH, formylation with POCl3-DMF in the 2nd position, and cyclization with Et cyanoacetate to give II (R = H), which was methylated with MeI to give II (R = Me). II (R = H) and II (R = Me) showed antiviral activity with pEC50 of 5.6 and 6.1, resp., in the cellular assay.

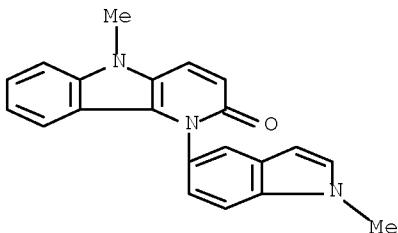
IT 869958-05-4P 869958-14-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of dihydropyridoindolones and analogs as antiviral agents)
RN 869958-05-4 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(1-methyl-1H-indol-5-yl)-2-oxo- (CA INDEX NAME)



RN 869958-14-5 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(1-methyl-1H-indol-5-yl)- (CA INDEX NAME)

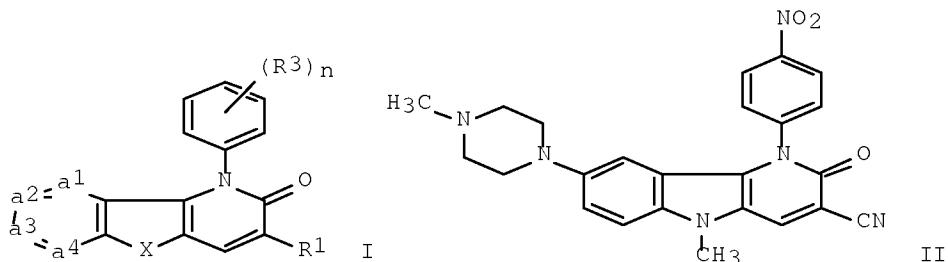


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1241136 CAPLUS Full-text
DOCUMENT NUMBER: 143:477955
TITLE: Preparation of 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs as antiviral agents
INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Vendeville, Sandrine Marie Helene; Kindermans, Natalie Maria Francisca; Surleraux, Dominique Louis Nestor Ghislain; Raboisson, Pierre Jean-Marie Bernard; Wigerinck, Piet Tom Bert Paul; Peeters, Annick Ann
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
SOURCE: PCT Int. Appl., 99 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005111035	A1	20051124	WO 2005-EP52263	20050517 <--

W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
EP 1751156	A1 20070214	EP 2005-747918	20050517 <--
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU		
CN 1976930	A 20070606	CN 2005-80015199	20050517 <--
BR 2005011173	A 20071204	BR 2005-11173	20050517 <--
JP 2007538050	T 20071227	JP 2007-517253	20050517 <--
IN 2006DN06236	A 20070831	IN 2006-DN6236	20061025 <--
US 20070167434	A1 20070719	US 2006-568840	20061108 <--
MX 2006PA13313	A 20070202	MX 2006-PA13313	20061116 <--
PRIORITY APPLN. INFO.:		EP 2004-102170	A 20040517 <--
		WO 2005-EP52263	W 20050517
OTHER SOURCE(S):	CASREACT 143:477955; MARPAT 143:477955		
GI			



AB This invention relates to 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs I [n = 1-3; R1 = H, halo, cyano, etc.; R3 = nitro, cyano, amino, etc.; X = O, S, SO, SO₂, (un)substituted NH; a1=a2-a3=a4 = substituted -CH=CH-CH=CH-, -N=CH-CH=CH-, -CH=N-CH=CH-, -CH=CH-N=CH- or -CH=CH-CH=N-, their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites], their use as HIV inhibitors, pharmaceutical compns. containing them and processes for preparing them. For instance, N-acetyl-3-hydroxyindole underwent successive coupling reaction with 4-nitroaniline, deacetylation with MeOH, formylation with POC13-DMF in the 2nd position, Knoevenagel condensation with Et cyanoacetate, cyclization in refluxing ethylene glycol and N-methylation with MeI, bromination with NBS and substitution with N-methylpiperazine to give II. This compound showed antiviral activity with PEC50 = 6.5 in the cellular assay.

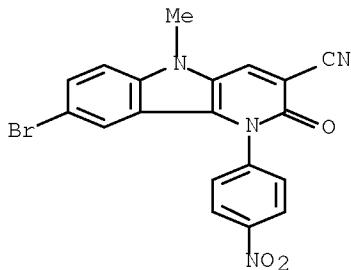
IT 869791-85-5P 869791-87-7P 869791-98-0P
869791-99-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of dihydropyridoindolones and analogs as
antiviral agents)

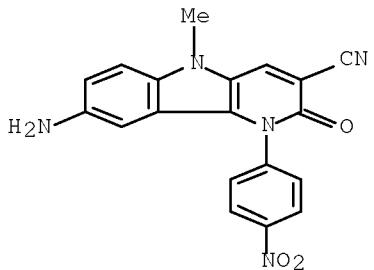
RN 869791-85-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-bromo-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



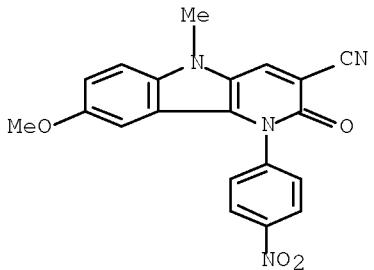
RN 869791-87-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-amino-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



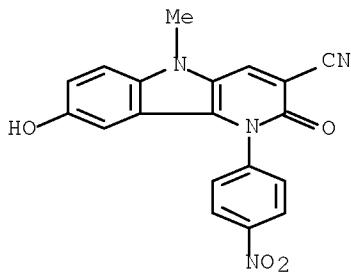
RN 869791-98-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-methoxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869791-99-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-hydroxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



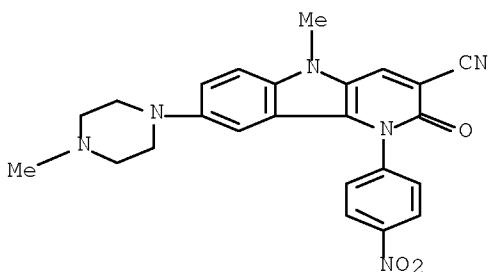
IT 869791-86-6P 869791-89-9P 869791-90-2P
869791-91-3P 869792-00-7P 869792-02-9P
869792-08-5P 869792-09-6P 869792-10-9P
869792-11-6P 869792-12-1P 869792-13-2P
869792-14-3P 869792-15-4P 869792-16-5P
869792-17-6P 869792-18-7P 869792-19-8P
869792-20-1P 869792-21-2P 869792-22-3P
869792-23-4P 869792-24-5P 869792-25-6P
869792-26-7P 869792-27-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of dihydropyridoindolones and analogs as antiviral agents)

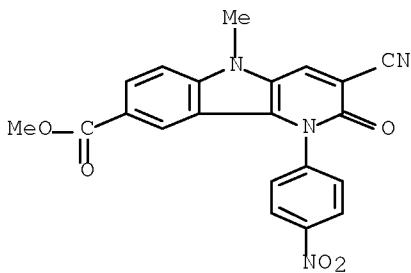
RN 869791-86-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-8-(4-methyl-1-piperazinyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

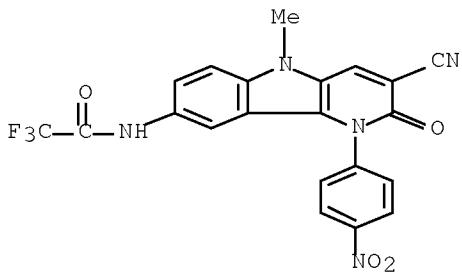


RN 869791-89-9 CAPLUS

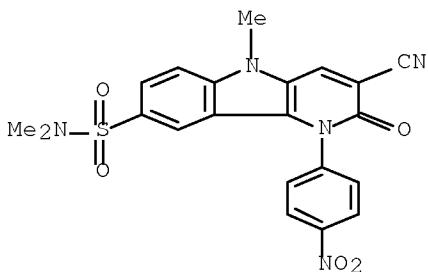
CN 1H-Pyrido[3,2-b]indole-8-carboxylic acid, 3-cyano-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



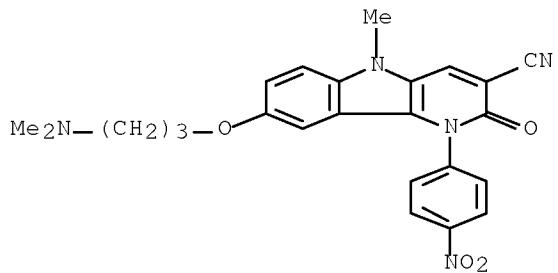
RN 869791-90-2 CAPLUS
 CN Acetamide, N-[3-cyano-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-8-yl]-2,2,2-trifluoro- (CA INDEX NAME)



RN 869791-91-3 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-8-sulfonamide, 3-cyano-2,5-dihydro-N,N,5-trimethyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

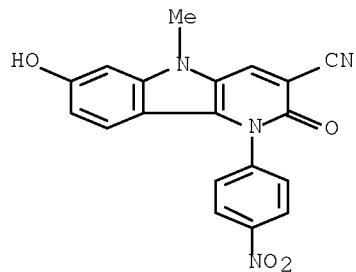


RN 869792-00-7 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[3-(dimethylamino)propoxy]-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



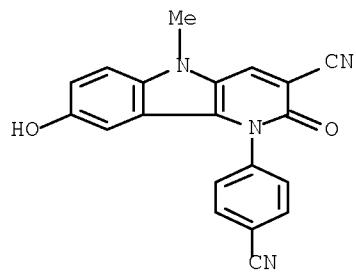
RN 869792-02-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-7-hydroxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



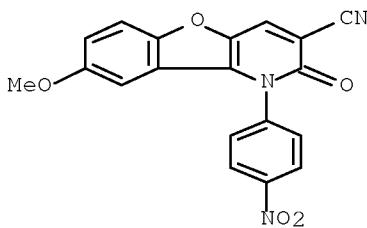
RN 869792-08-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-8-hydroxy-5-methyl-2-oxo- (CA INDEX NAME)



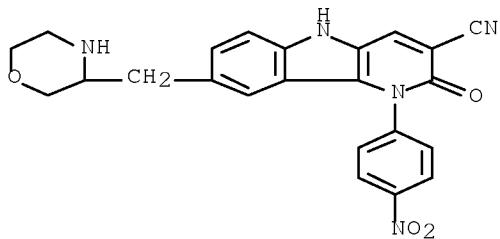
RN 869792-09-6 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1,2-dihydro-8-methoxy-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



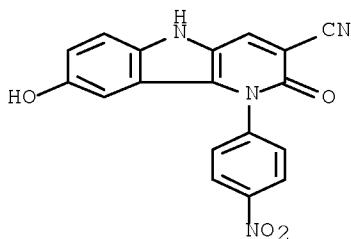
RN 869792-10-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-(3-morpholinylmethyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



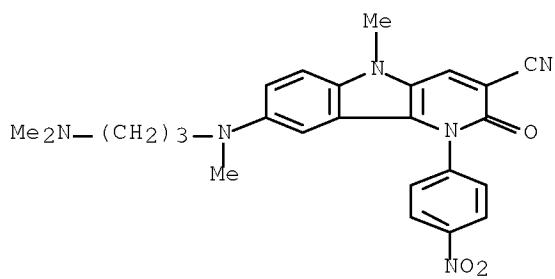
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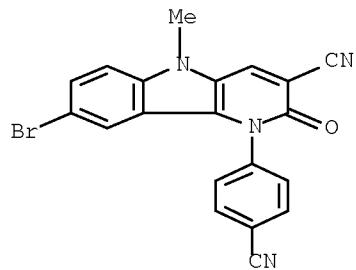
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[[3-(dimethylamino)propyl]methoxy]-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



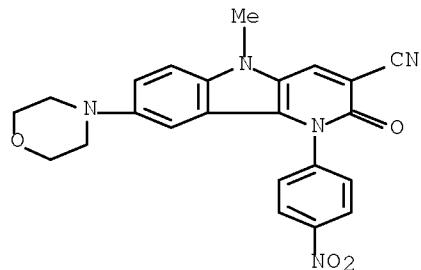
RN 869792-13-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-bromo-1-(4-cyanophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



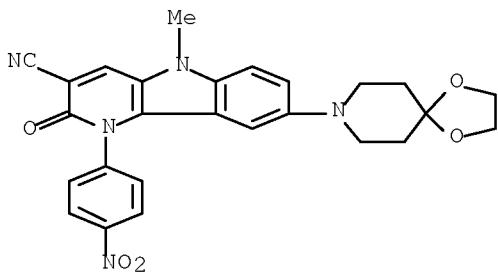
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-8-(4-morpholinyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



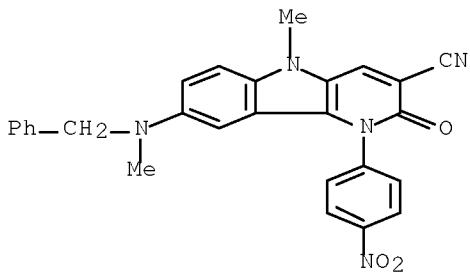
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-(1,4-dioxa-8-azaspiro[4.5]dec-8-yl)-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



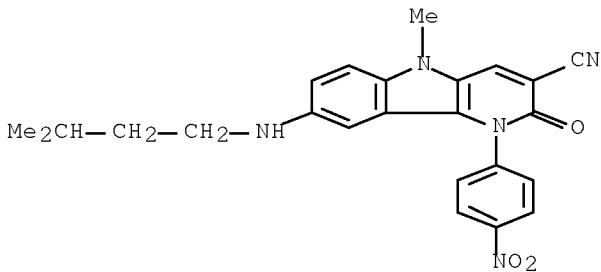
RN 869792-16-5 CAPLUS

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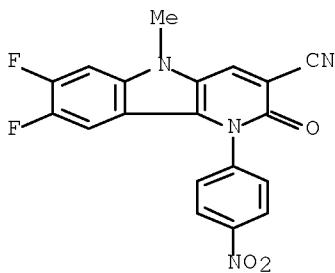
RN 869792-17-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-8-[(3-methylbutyl)amino]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



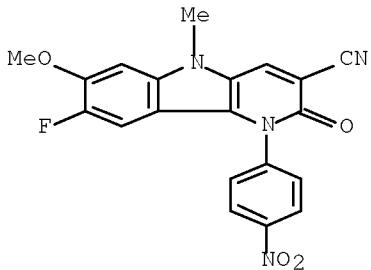
RN 869792-18-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 7,8-difluoro-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



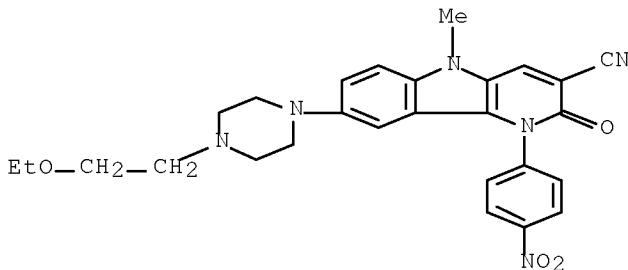
RN 869792-19-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-fluoro-2,5-dihydro-7-methoxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



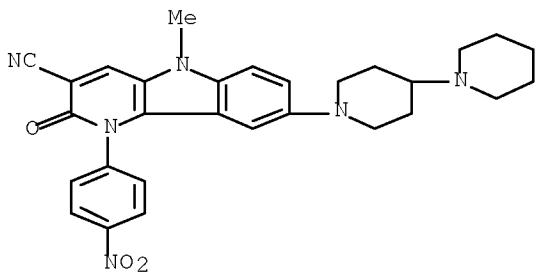
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[4-(2-ethoxyethyl)-1-piperazinyl]-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



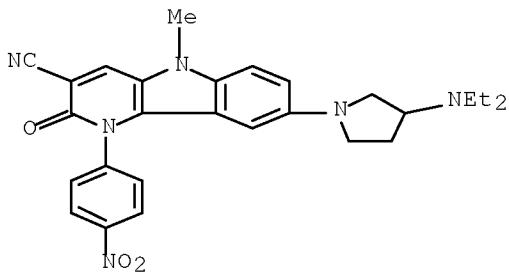
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[1,4'-bipiperidin]-1'-yl-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



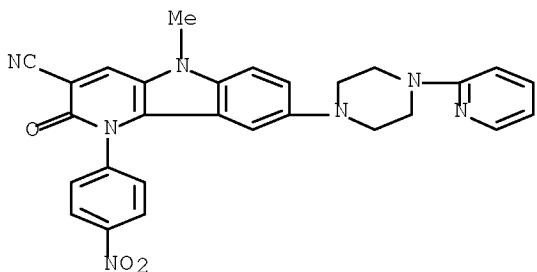
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[3-(diethylamino)-1-pyrrolidinyl]-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



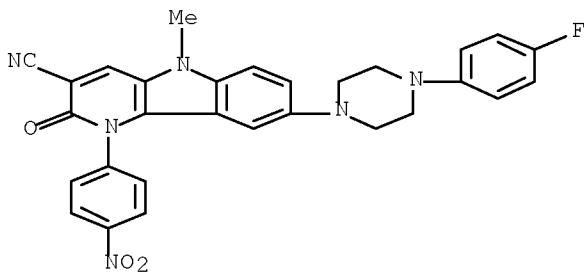
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-8-[4-(2-pyridinyl)-1-piperazinyl]- (CA INDEX NAME)



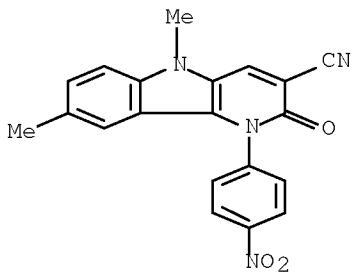
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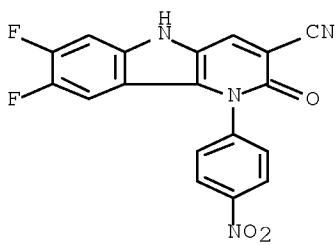
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5,8-dimethyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



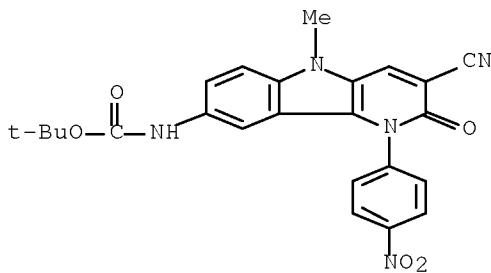
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 7,8-difluoro-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

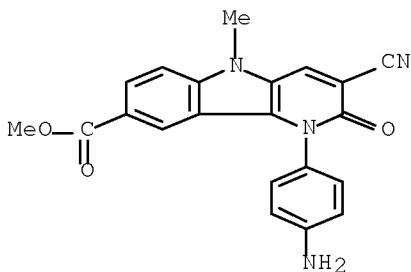


RN 869792-27-8 CAPLUS

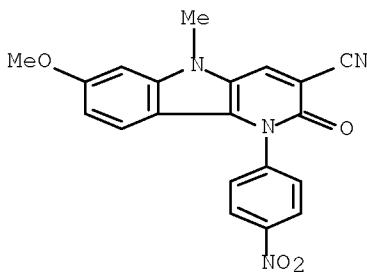
CN Carbamic acid, [3-cyano-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-8-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT 869791-88-8P 869792-01-8P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of dihydropyridoindolones and analogs as antiviral agents)
 RN 869791-88-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-8-carboxylic acid, 1-(4-aminophenyl)-3-cyano-2,5-dihydro-5-methyl-2-oxo-, methyl ester (CA INDEX NAME)

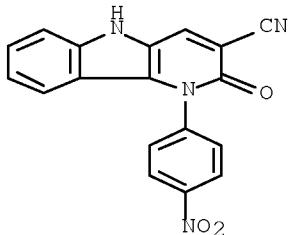


RN 869792-01-8 CAPLUS
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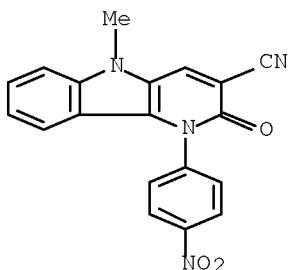


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 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

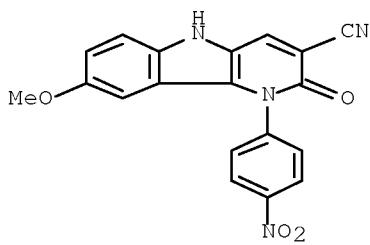
(preparation of dihydropyridoindolones and analogs as antiviral agents)
RN 304465-35-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)



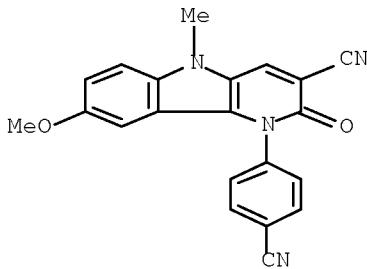
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869791-97-9 CAPLUS
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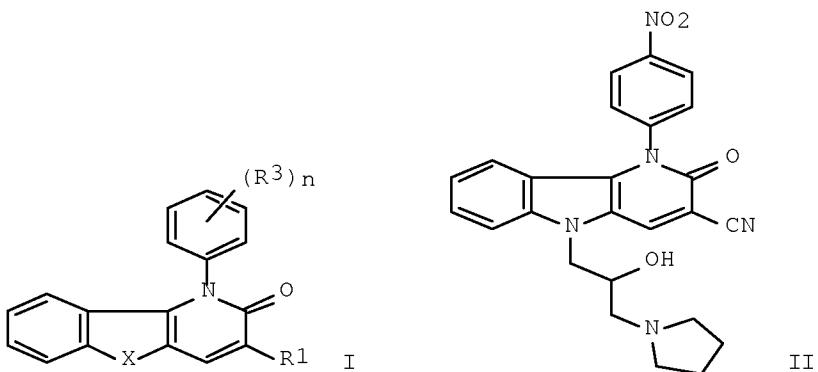
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-8-methoxy-5-methyl-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1241126 CAPLUS Full-text
 DOCUMENT NUMBER: 144:6778
 TITLE: Preparation of 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs as antiviral agents
 INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Canard, Maxime Francis Jean-Marie Ghislain; Van De Vreken, Wim; Raboisson, Pierre Jean-Marie Bernard; Surleraux, Dominique Louis Nestor Ghislain; Wigerinck, Piet Tom Bert Paul
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 91 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

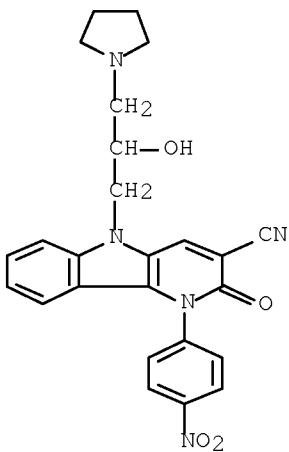
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IN 2006DN06228	A	20070831	IN 2006-DN6228	20061025 <--
US 20070238727	A1	20071011	US 2006-568838	20061108 <--
MX 2006PA13312	A	20070202	MX 2006-PA13312	20061116 <--
PRIORITY APPLN. INFO.:			EP 2004-102169	A 20040517 <--



AB This invention relates to 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs I [wherein X = O, S, SO, SO₂, (un)substituted NH; n = 1-3; R₁ = H, halo, cyano, etc.; R₃ = nitro, cyano, amino, etc., their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites], their use as HIV inhibitors, pharmaceutical compns. containing them and processes for preparing them. For instance, N-acetyl-3-hydroxyindole underwent successive coupling reaction with 4-nitroaniline, deacetylation with MeOH, formylation with POCl₃-DMF in the 2nd position, Knoevenagel condensation with Et cyanoacetate, cyclization in refluxing ethylene glycol, Mitsunobu reaction with glycidol, and ring-opening reaction with pyrrolidine to give II. This compound showed antiviral activity with pEC₅₀ = 6.6 in the cellular assay.

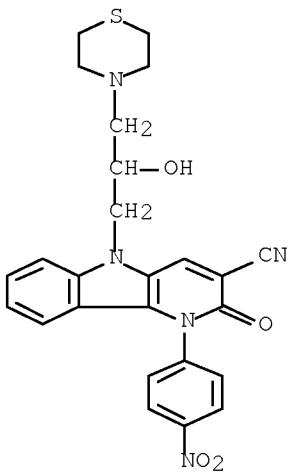
IT 869883-23-8P 869883-28-3P 869883-40-9P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of dihydropyridoindolones and analogs as antiviral agents)

RN 869883-23-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(1-pyrrolidinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



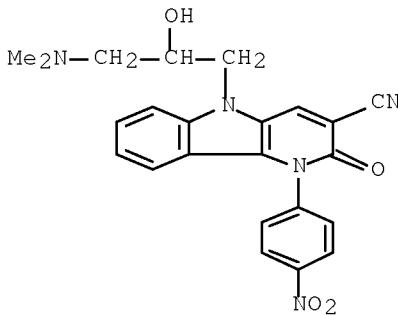
RN 869883-28-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(4-thiomorpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-40-9 CAPLUS

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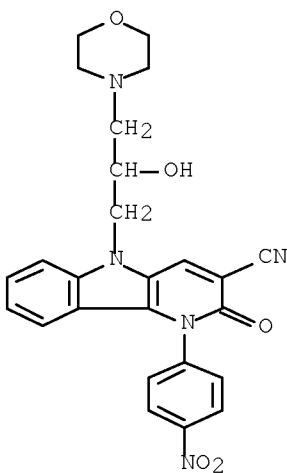
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of dihydropyridoindolones and analogs as antiviral agents)

RN 869883-22-7 CAPLUS

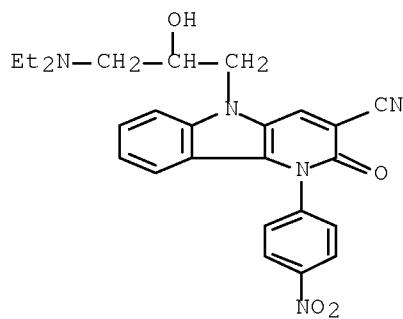
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(4-morpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-24-9 CAPLUS

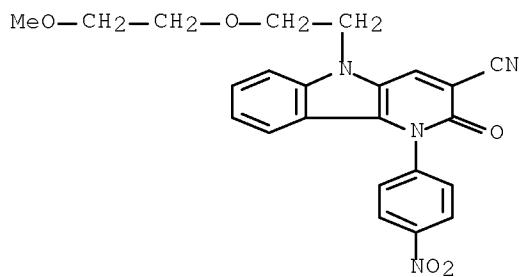
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(diethylamino)-2-

hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-25-0 CAPLUS

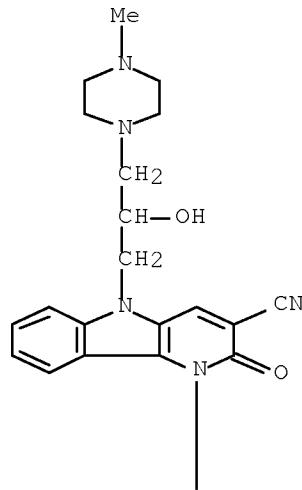
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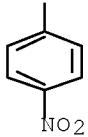
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(4-methyl-1-piperazinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

PAGE 1-A



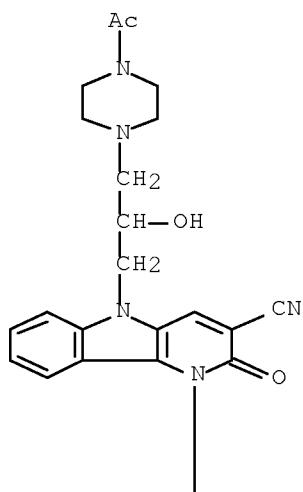
PAGE 2-A



RN 869883-27-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(4-acetyl-1-piperazinyl)-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

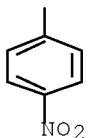
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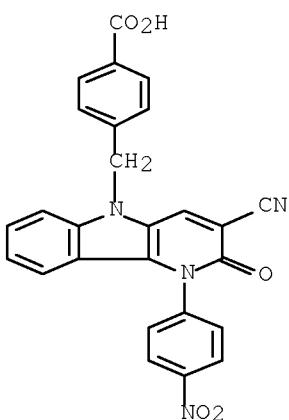


RN 869883-29-4 CAPLUS

CN Benzoic acid, 4-[[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl)methyl]- (CA INDEX NAME)

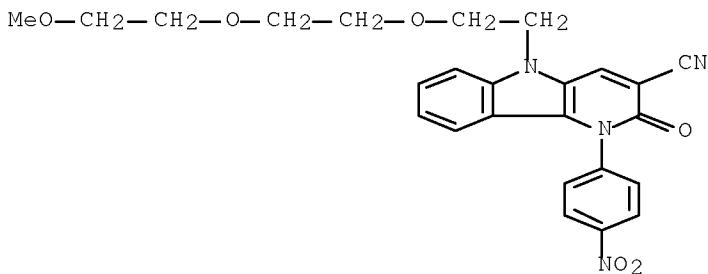
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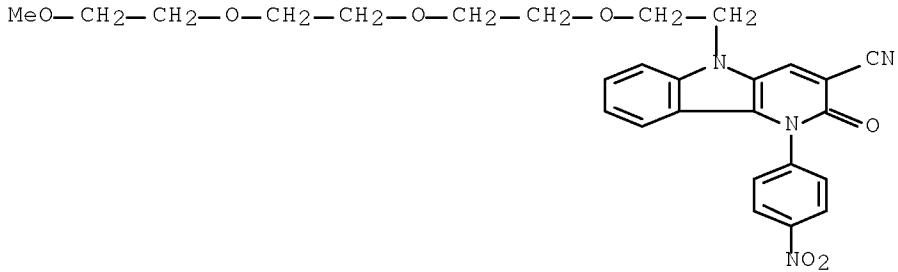
RN 869883-30-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-[2-(2-methoxyethoxy)ethoxy]ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-31-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(3,6,9,12-tetraoxatridec-1-yl)- (CA INDEX NAME)



RN 869883-33-0 CAPLUS

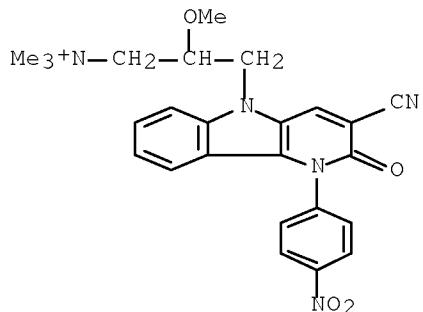
CN 5H-Pyrido[3,2-b]indole-5-propanaminium, 3-cyano-1,2-dihydro-β-methoxy-

N,N,N-trimethyl-1-(4-nitrophenyl)-2-oxo-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 869883-32-9

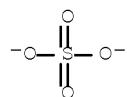
CMF C25 H26 N5 O4



CM 2

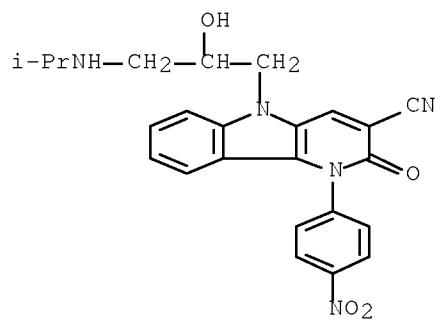
CRN 14808-79-8

CMF O4 S



RN 869883-34-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-[(1-methylethyl)amino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

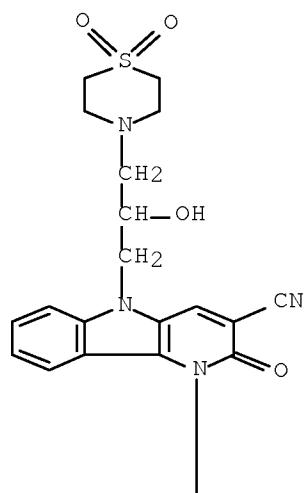


RN 869883-35-2 CAPLUS

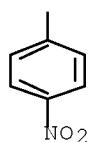
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(1,1-dioxido-4-

thiomorpholinyl)-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)

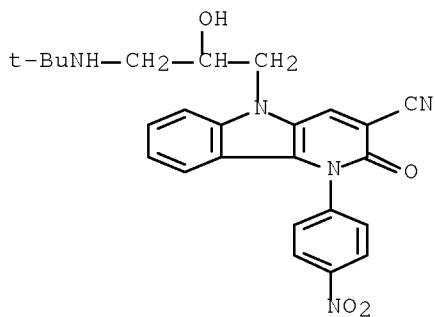
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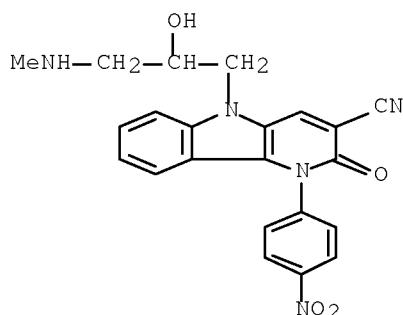


RN 869883-36-3 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



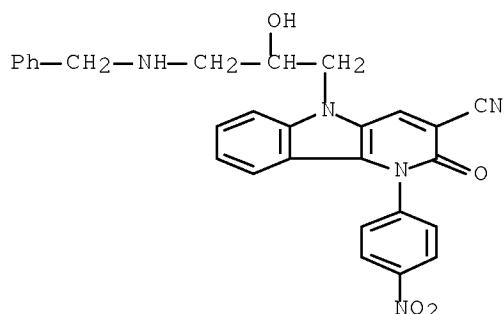
RN 869883-37-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(methylamino)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



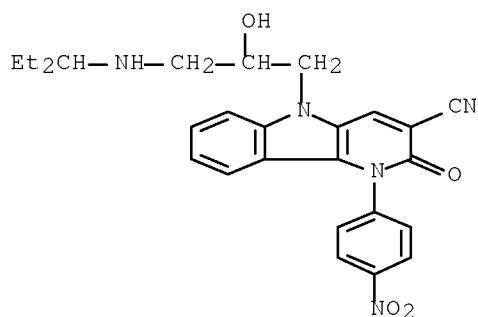
RN 869883-38-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-[(phenylmethyl)amino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-39-6 CAPLUS

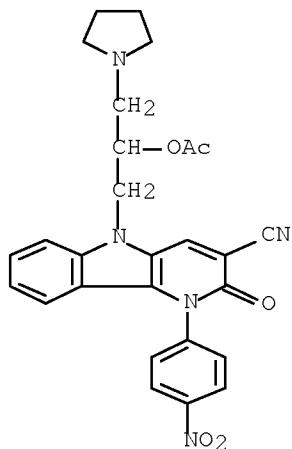
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[(1-ethylpropyl)amino]-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-41-0 CAPLUS

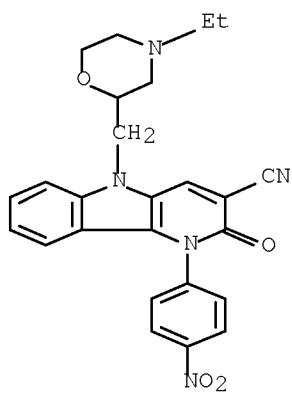
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-(acetoxy)-3-(1-

pyrrolidinyl)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



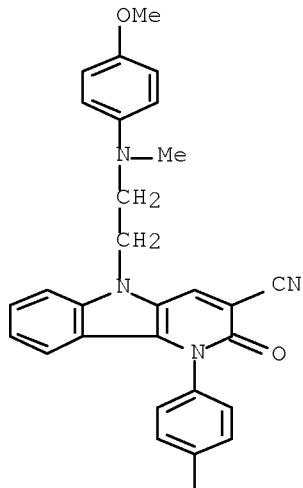
RN 869883-42-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[(4-ethyl-2-morpholinyl)methyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-43-2 CAPLUS

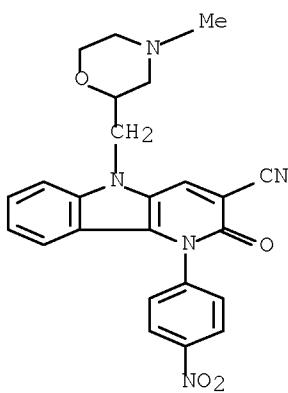
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-[(4-methoxyphenyl)methylamino]ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



NO 2

RN 869883-44-3 CAPI

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[(4-methyl-2-morpholinyl)methyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

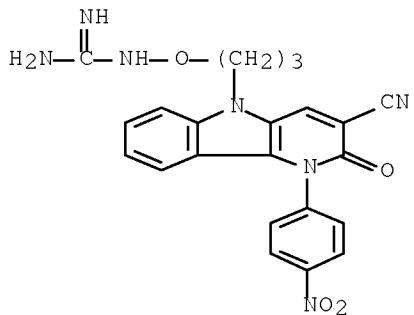


RN 869883-46-5 CAPLUS

CN Guanidine, N-[3-[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]propoxy]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

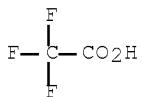
CM 1

CRN 869883-45-4
CMF C22 H19 N7 O4



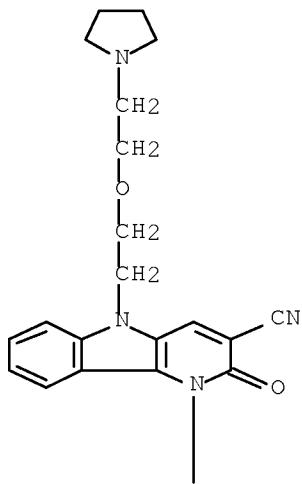
CM 2

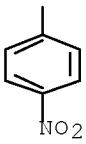
CRN 76-05-1
CMF C2 H F3 O2



RN 869883-47-6 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-[2-(1-pyrrolidinyl)ethoxy]ethyl]- (CA INDEX NAME)

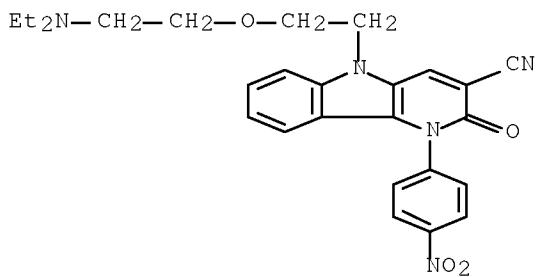
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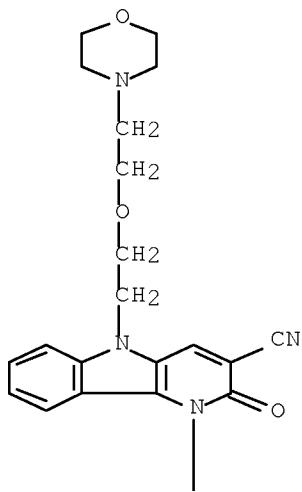
RN 869883-48-7 CAPLUS

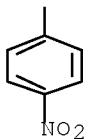
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-[2-(diethylamino)ethoxy]ethyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-49-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-[2-(4-morpholinyl)ethoxy]ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

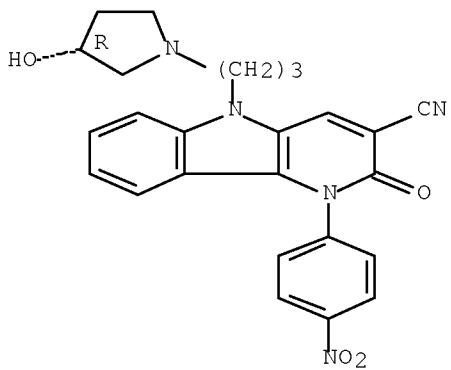




RN 869883-50-1 CAPLUS

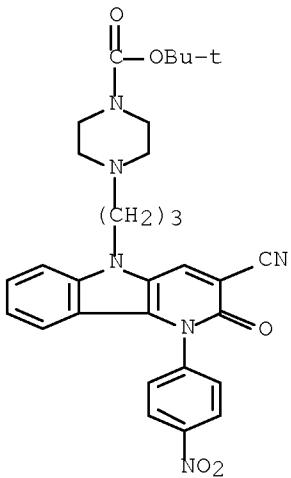
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-[(3R)-3-hydroxy-1-pyrrolidinyl]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

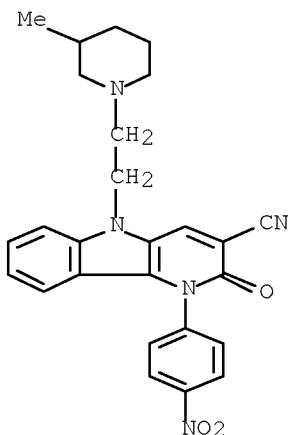


RN 869883-51-2 CAPLUS

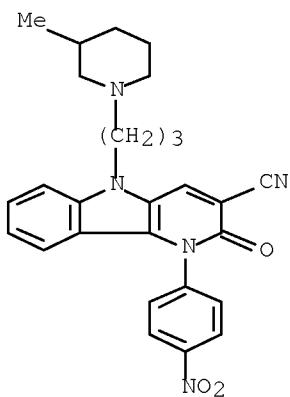
CN 1-Piperazinecarboxylic acid, 4-[3-[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]propyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



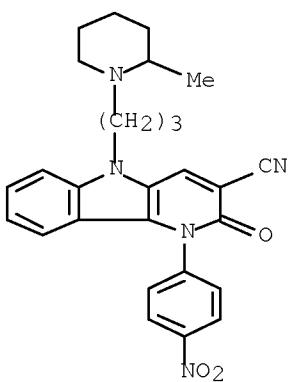
RN 869883-52-3 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(3-methyl-1-piperidinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-53-4 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(3-methyl-1-piperidinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

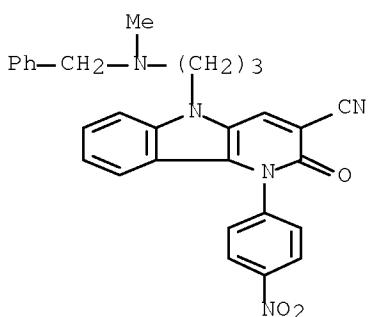


RN 869883-54-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(2-methyl-1-piperidinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



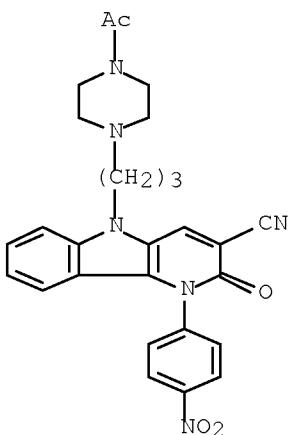
RN 869883-55-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-[methyl(phenylmethyl)amino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



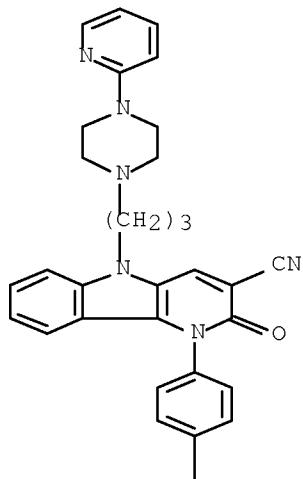
RN 869883-56-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(4-acetyl-1-piperazinyl)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-57-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl]- (CA INDEX NAME)

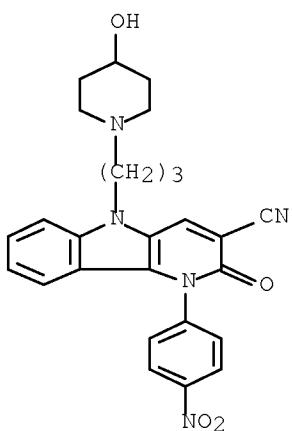
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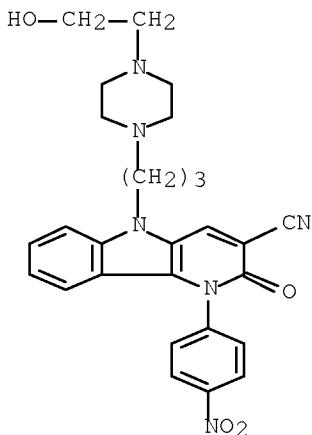
PAGE 2-A



RN 869883-58-9 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-hydroxy-1-piperidinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

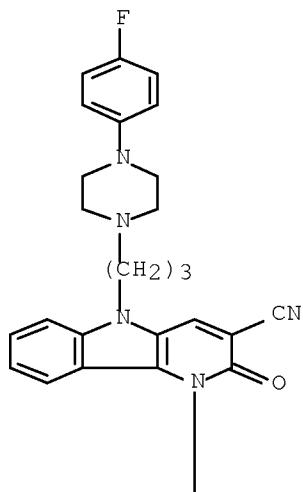


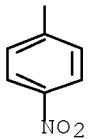
RN 869883-59-0 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-[4-(2-hydroxyethyl)-1-piperazinyl]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



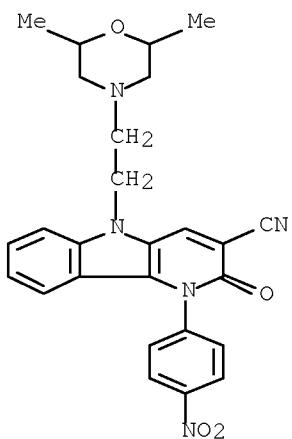
RN 869883-60-3 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

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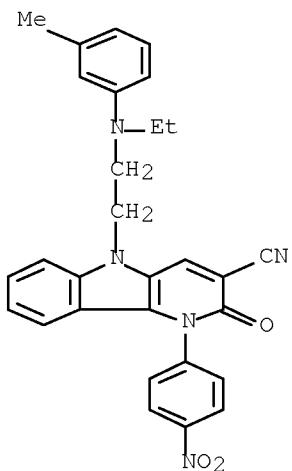




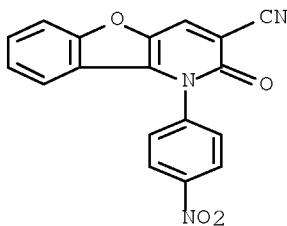
RN 869883-61-4 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-(2,6-dimethyl-4-morpholinyl)ethyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



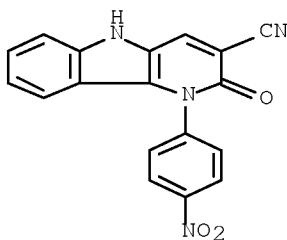
RN 869883-62-5 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-[ethyl(3-methylphenyl)amino]ethyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



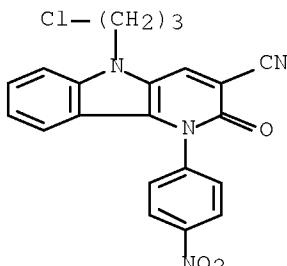
RN 869883-63-6 CAPLUS
CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



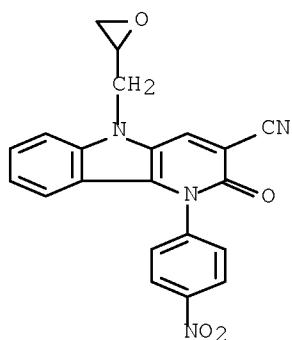
IT 304465-35-8P 698397-46-5P 869883-64-7P
869883-65-8P 869883-66-9P 869883-67-0P
869883-68-1P 869883-69-2P 869883-70-5P
869883-71-6P 869883-72-7P 869883-73-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of dihydropyridoindolones and analogs as antiviral agents)
RN 304465-35-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



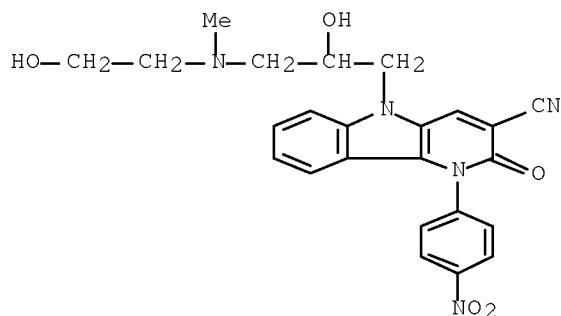
RN 698397-46-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-chloropropyl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



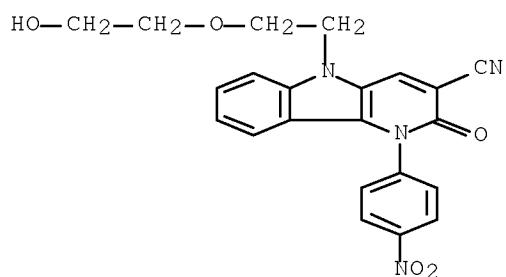
RN 869883-64-7 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-5-(2-oxiranylmethyl)-2-oxo- (CA INDEX NAME)



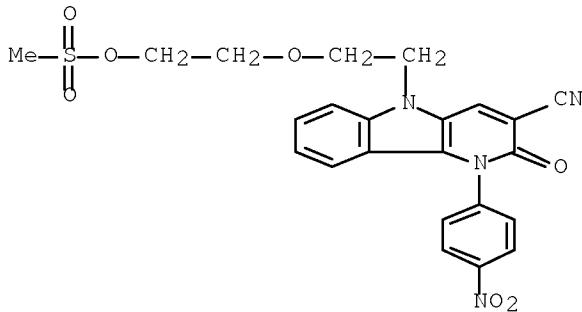
RN 869883-65-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-[(2-hydroxyethyl)methylamino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



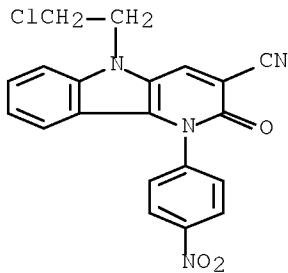
RN 869883-66-9 CAPLUS
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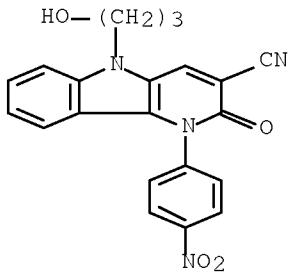
RN 869883-67-0 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-[2-[(methylsulfonyl)oxy]ethoxy]ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-68-1 CAPLUS
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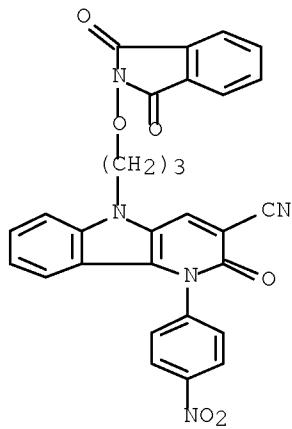


RN 869883-69-2 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-(3-hydroxypropyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



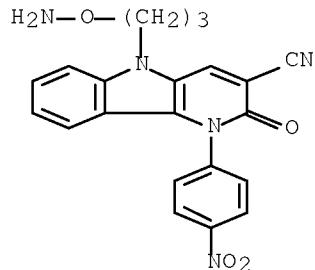
RN 869883-70-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[(1,3-dihydro-1,3-dioxo-2H-

isoindol-2-yl)oxy]propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



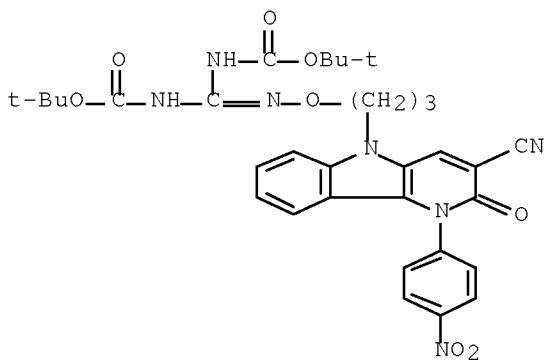
RN 869883-71-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(aminoxy)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



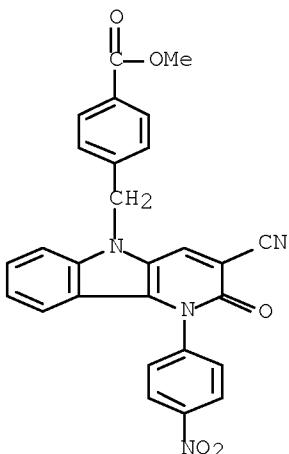
RN 869883-72-7 CAPLUS

CN Carbamic acid, [[3-[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]propoxy]carbonimidoyl]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 869883-73-8 CAPLUS

CN Benzoic acid, 4-[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]methyl-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:453214 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:23513

TITLE: Preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compositions for the treatment of HIV-infection

INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Van De Vreken, Wim; Kindermans, Natalie Maria Francisca; Canard, Maxime Francis Jean-Marie Ghislain; Hertogs, Kurt; Bettens, Eva; De Vroey Veronique, Corine Paul; Jochmans, Dirk Edward Desire

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

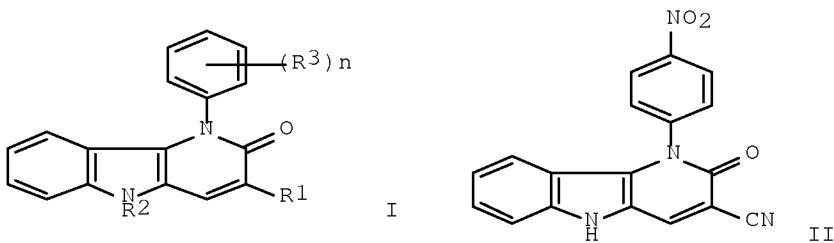
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046143	A1	20040603	WO 2003-EP50837	20031114 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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BR 2003016209	A	20050927	BR 2003-16209	20031114 <--
EP 1594870	A1	20051116	EP 2003-811395	20031114 <--
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IN 2005DN01500	A	20070119	IN 2005-DN1500	20050413 <--
US 20060173000	A1	20060803	US 2005-535007	20050512 <--
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PRIORITY APPLN. INFO.:				
		EP 2002-79783	A	20021115 <--
		US 2002-434950P	P	20021220 <--
		EP 2002-7983	A	20021115 <--
		WO 2003-EP50837	W	20031114 <--

OTHER SOURCE(S): MARPAT 141:23513

GI



AB Pyrido[3,2-b]indoles, such as I [R1 = H, CN, halogen, carboxamide, carboxyl, etc.; R2 = H, alkyl, alkenyl, cycloalkyl, heterocyclyl, heterocyclylalkyl, etc.; R3 = NO₂, CN, NH₂, OH, CO₂H, CONH₂, methanimidamidyl, alkoxy, acyl, etc.; n = 1, 2, 3], were prepared for therapeutic use and anti-HIV agents. Thus, pyrido[3,2-b]indole II was prepared via a five step synthetic scheme starting from 1-acetyl-3-hydroxyindole, 4-nitroaniline and Et cyanoacetate.

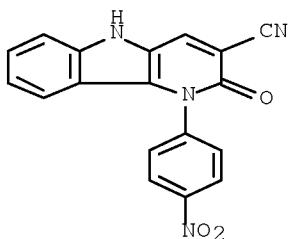
The prepared pyrido[3,2-b]indoles were tested for inhibition of HIV reverse transcriptase, for metabolism using human liver microsomal fractions and for anti-HIV activity.

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698396-93-9P 698396-97-3P 698396-98-4P
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698397-45-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)

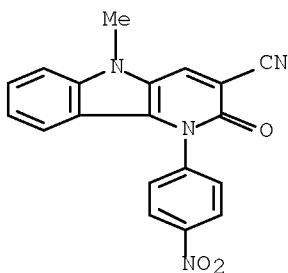
RN 304465-35-8 CAPPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)



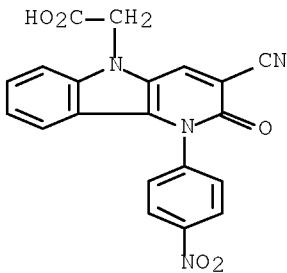
RN 352548-47-1 CAPPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)



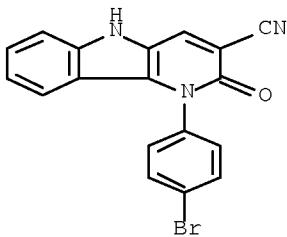
RN 698396-45-1 CAPPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)



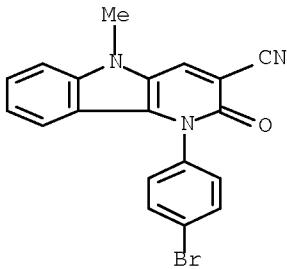
RN 698396-64-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-2-oxo-
(CA INDEX NAME)



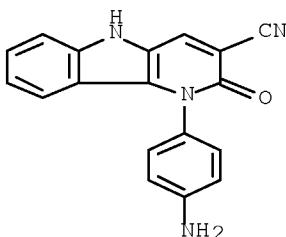
RN 698396-65-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



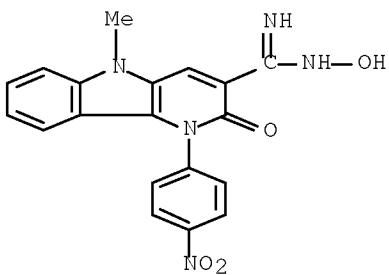
RN 698396-80-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-2-oxo-
(CA INDEX NAME)



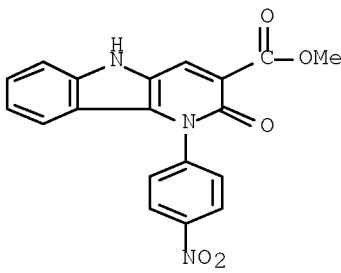
RN 698396-93-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboximidamide, 2,5-dihydro-N-hydroxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



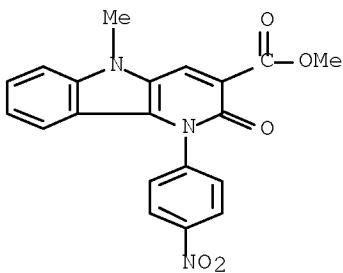
RN 698396-97-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



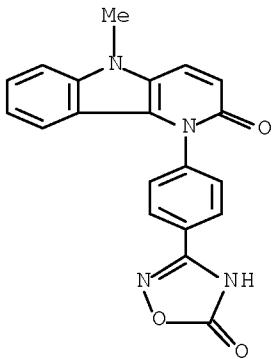
RN 698396-98-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



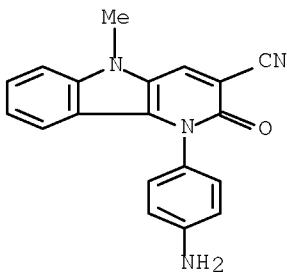
RN 698397-05-6 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



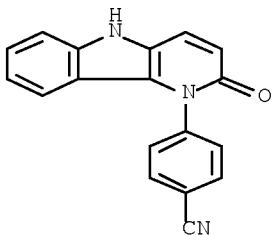
RN 698397-11-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)

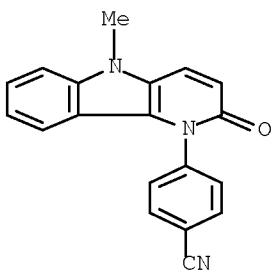


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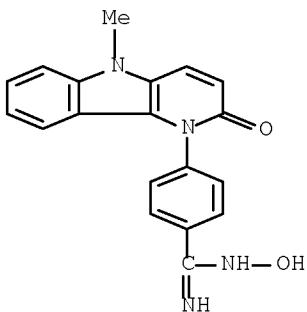
CN Benzonitrile, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



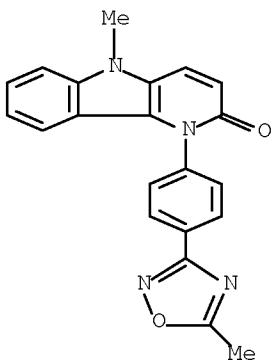
RN 698397-18-1 CAPLUS
CN Benzonitrile, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-
(CA INDEX NAME)



RN 698397-19-2 CAPLUS
CN Benzenecarboximidamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N-hydroxy- (CA INDEX NAME)

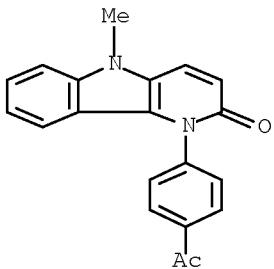


RN 698397-25-0 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



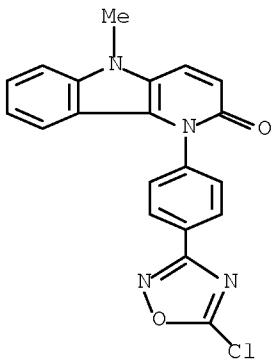
RN 698397-41-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-acetylphenyl)-1,5-dihydro-5-methyl- (CA INDEX NAME)



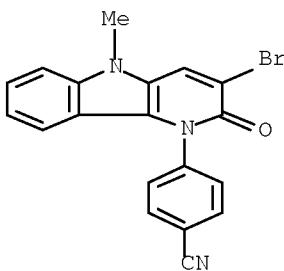
RN 698397-43-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-chloro-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



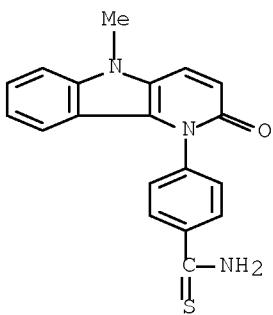
RN 698397-44-3 CAPLUS

CN Benzonitrile, 4-(3-bromo-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



RN 698397-45-4 CAPLUS

CN Benzenecarbothioamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)

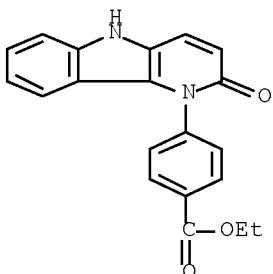


IT 698397-13-6

RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use);
BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical
comps. for the treatment of HIV-infection)

RN 698397-13-6 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl
ester (CA INDEX NAME)



IT 698396-30-4P 698396-31-5P 698396-32-6P

698396-33-7P 698396-34-8P 698396-35-9P
698396-36-0P 698396-37-1P 698396-38-2P
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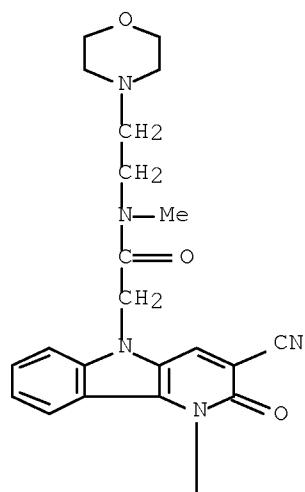
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)

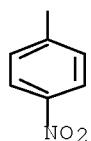
RN 698396-30-4 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetamide, 3-cyano-1,2-dihydro-N-methyl-N-[2-(4-morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

PAGE 1-A

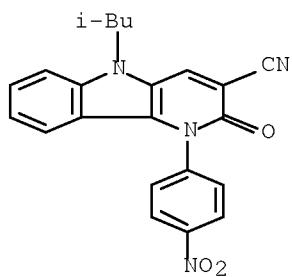


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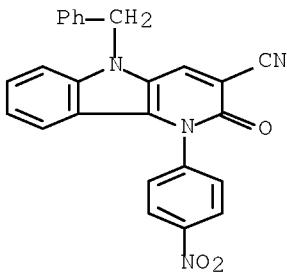
RN 698396-31-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-(2-methylpropyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



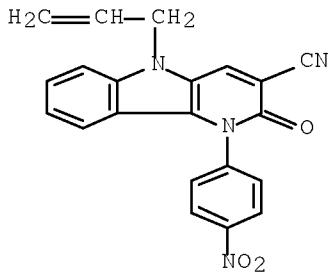
RN 698396-32-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(phenylmethyl)- (CA INDEX NAME)



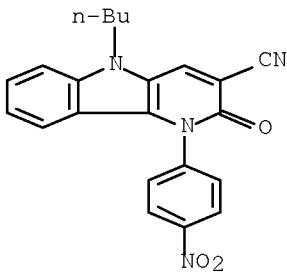
RN 698396-33-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)



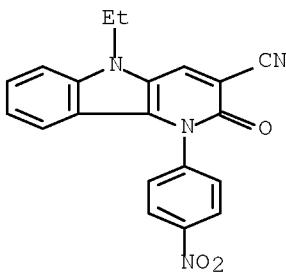
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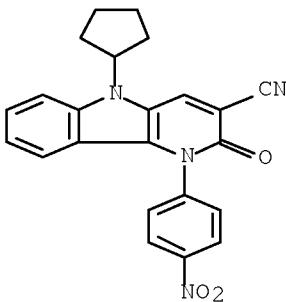


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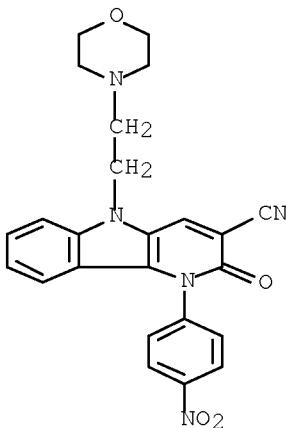
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-ethyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



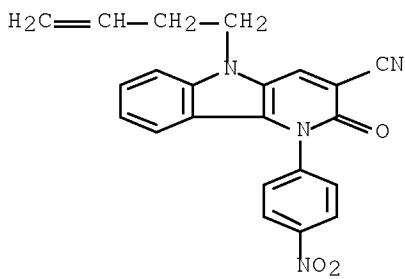
RN 698396-36-0 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-cyclopentyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-37-1 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

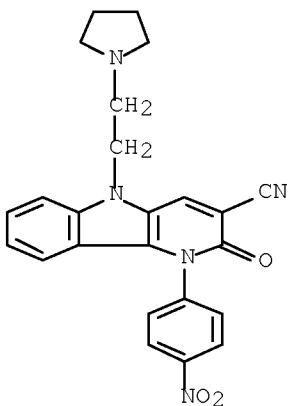


RN 698396-38-2 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-buten-1-yl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



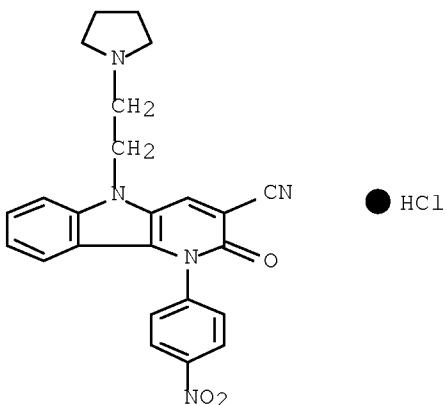
RN 698396-39-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



RN 698396-40-6 CAPLUS

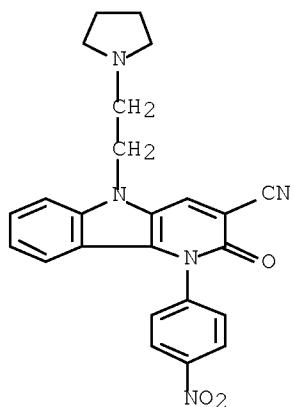
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, hydrochloride (1:1) (CA INDEX NAME)



RN 698396-41-7 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, ethanedioate (1:1) (CA INDEX NAME)

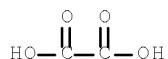
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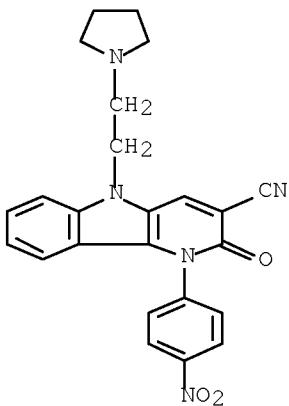
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CMF C2 H2 O4



RN 698396-42-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

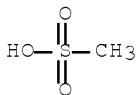
CRN 698396-39-3
CMF C24 H21 N5 O3



CM 2

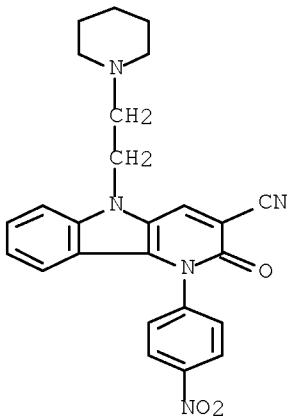
CRN 75-75-2

CMF C H4 O3 S



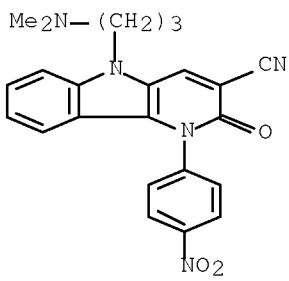
RN 698396-43-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



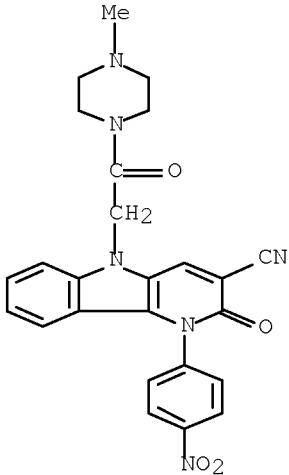
RN 698396-44-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(dimethylamino)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



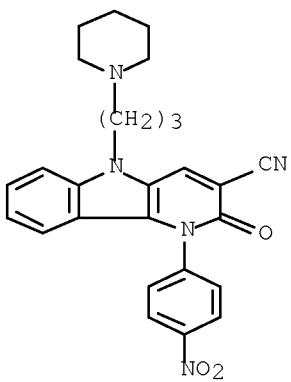
RN 698396-46-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-methyl-1-piperazinyl)-2-oxoethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



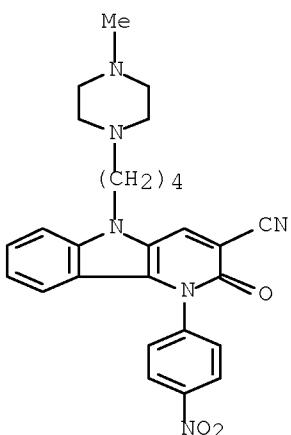
RN 698396-47-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-piperidinyl)propyl]- (CA INDEX NAME)



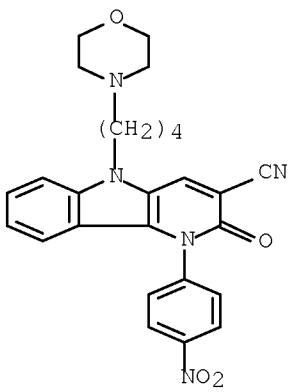
RN 698396-48-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-methyl-1-piperazinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



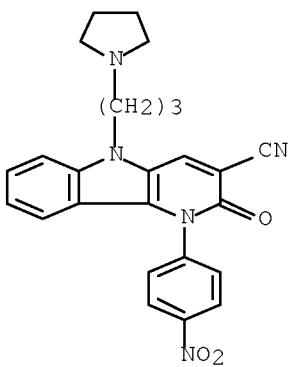
RN 698396-49-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-morpholinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



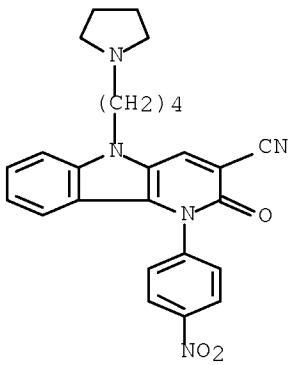
RN 698396-50-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-pyrrolidinyl)propyl]- (CA INDEX NAME)

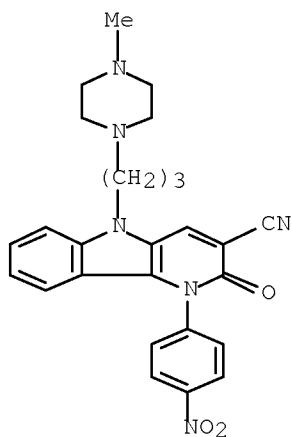


RN 698396-51-9 CAPLUS

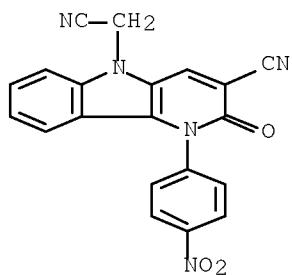
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-pyrrolidinyl)butyl]- (CA INDEX NAME)



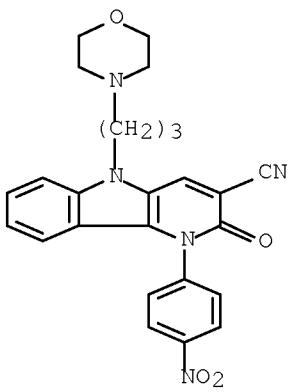
RN 698396-52-0 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-methyl-1-piperazinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-53-1 CAPLUS
CN 5H-Pyrido[3,2-b]indole-5-acetonitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

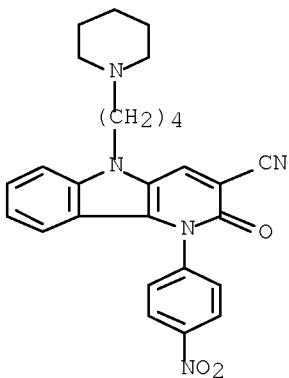


RN 698396-54-2 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-morpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



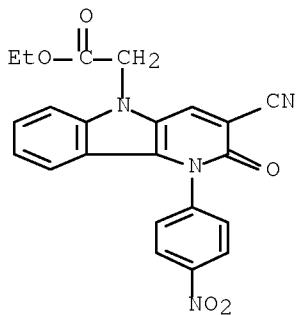
RN 698396-55-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-piperidinyl)butyl]- (CA INDEX NAME)



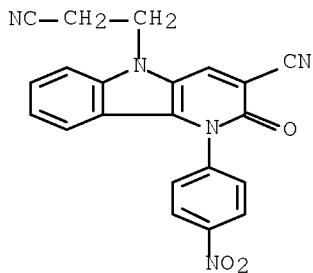
RN 698396-56-4 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-, ethyl ester (CA INDEX NAME)



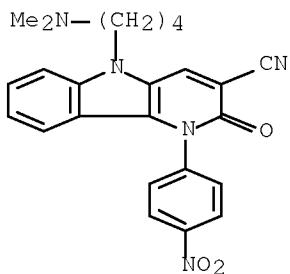
RN 698396-57-5 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-propanenitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



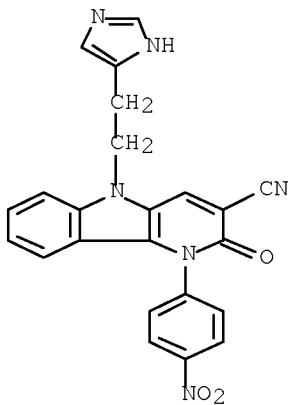
RN 698396-58-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[4-(dimethylamino)butyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

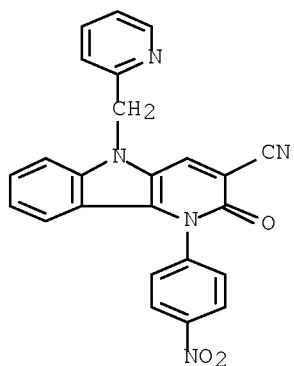


RN 698396-59-7 CAPLUS

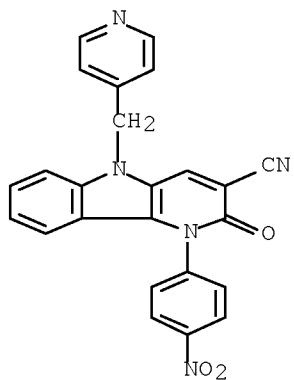
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(1H-imidazol-5-yl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



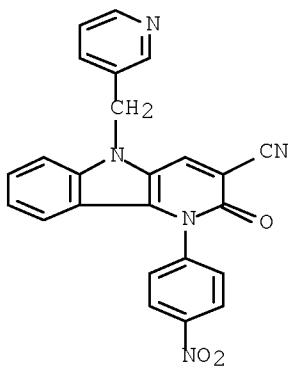
RN 698396-60-0 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-pyridinylmethyl)- (CA INDEX NAME)



RN 698396-61-1 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(4-pyridinylmethyl)- (CA INDEX NAME)

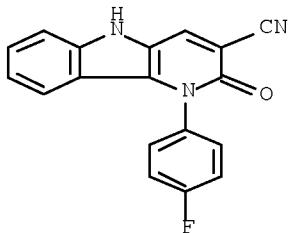


RN 698396-62-2 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(3-pyridinylmethyl)- (CA INDEX NAME)



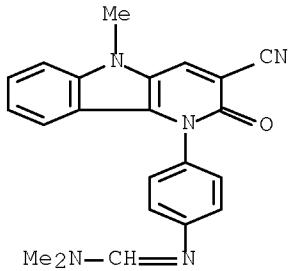
RN 698396-63-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



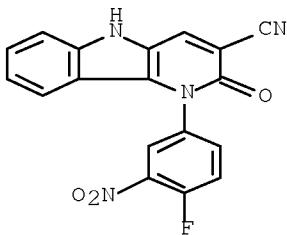
RN 698396-66-6 CAPLUS

CN Methanimidamide, N'-(4-(3-cyano-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl)-N,N-dimethyl- (CA INDEX NAME)



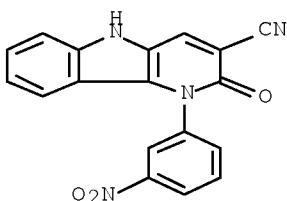
RN 698396-67-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluoro-3-nitrophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



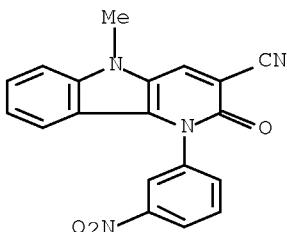
RN 698396-68-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(3-nitrophenyl)-2-oxo-
(CA INDEX NAME)



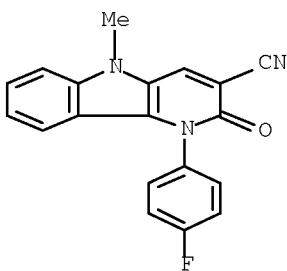
RN 698396-69-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(3-nitrophenyl)-2-oxo- (CA INDEX NAME)



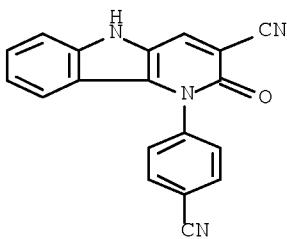
RN 698396-70-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



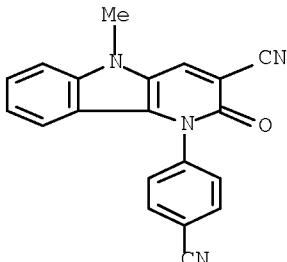
RN 698396-71-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-
(CA INDEX NAME)



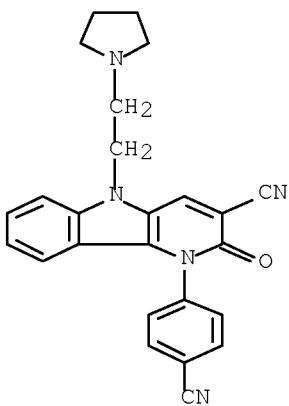
RN 698396-72-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



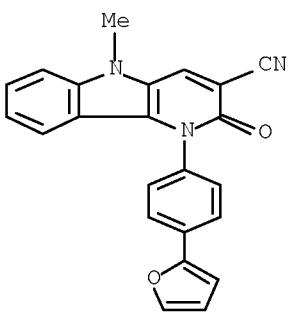
RN 698396-73-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-
5-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



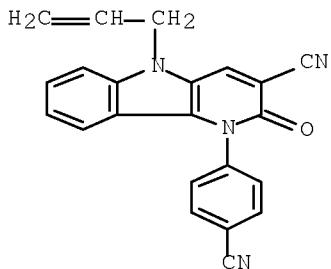
RN 698396-74-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(2-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



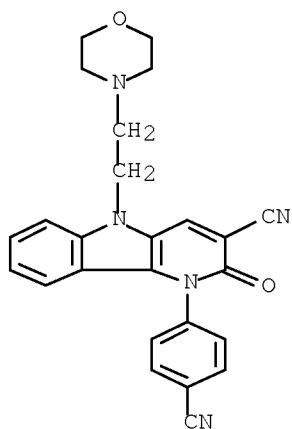
RN 698396-75-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)



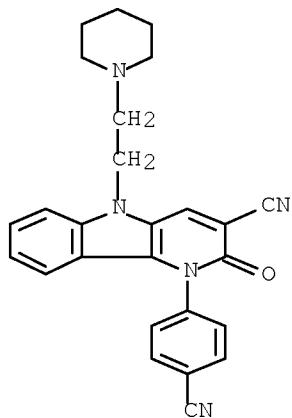
RN 698396-76-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-[2-(4-morpholinyl)ethyl]-2-oxo- (CA INDEX NAME)



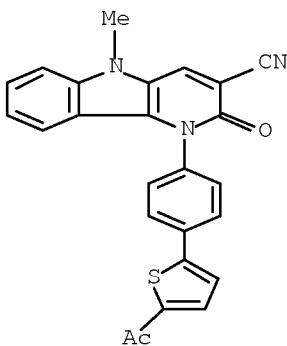
RN 698396-77-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



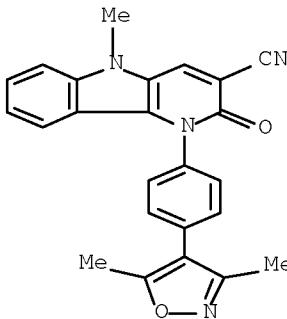
RN 698396-78-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(5-acetyl-2-thienyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



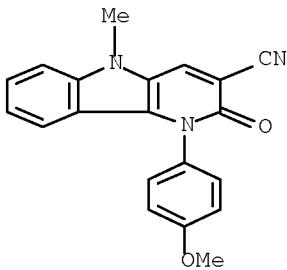
RN 698396-79-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3,5-dimethyl-4-isoxazolyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



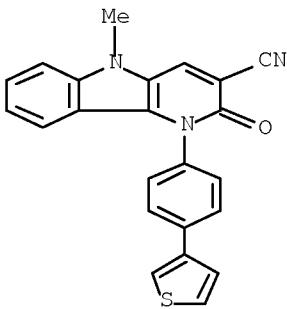
RN 698396-81-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-methoxyphenyl)-5-methyl-2-oxo- (CA INDEX NAME)



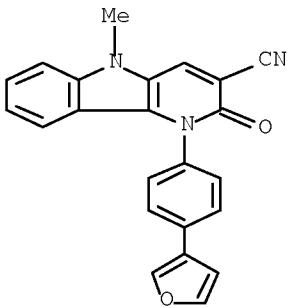
RN 698396-82-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(3-thienyl)phenyl]- (CA INDEX NAME)



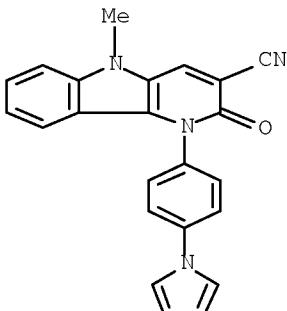
RN 698396-83-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



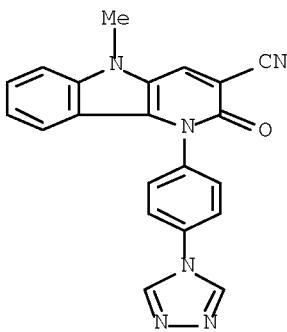
RN 698396-84-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(1H-pyrrol-1-yl)phenyl]- (CA INDEX NAME)



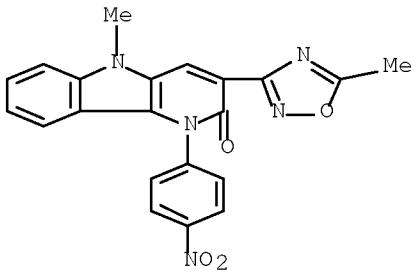
RN 698396-85-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(4H-1,2,4-triazol-4-yl)phenyl]- (CA INDEX NAME)



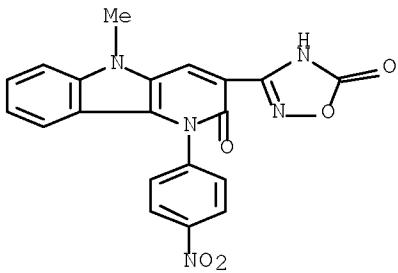
RN 698396-86-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-(4-nitrophenyl)- (CA INDEX NAME)



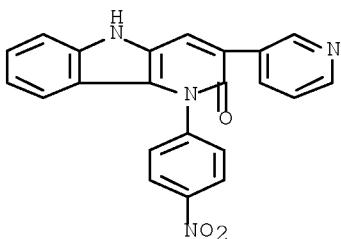
RN 698396-87-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)

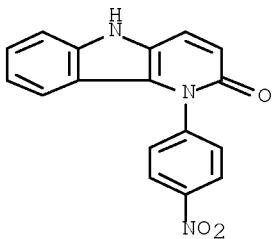


RN 698396-88-2 CAPLUS

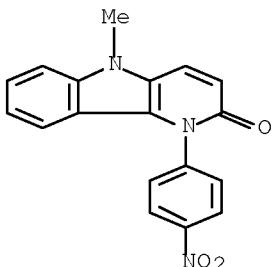
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(3-pyridinyl)- (CA INDEX NAME)



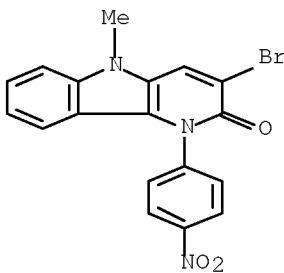
RN 698396-89-3 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)- (CA INDEX NAME)



RN 698396-90-6 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)

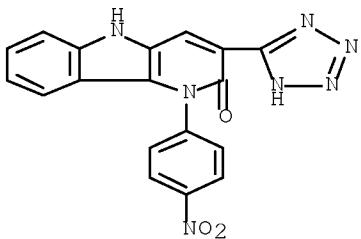


RN 698396-91-7 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)



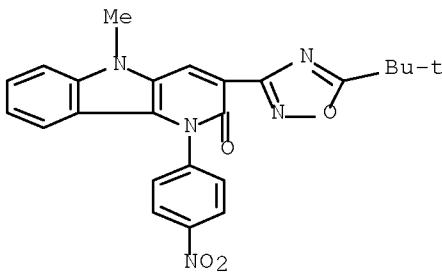
RN 698396-92-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(2H-tetrazol-5-yl)- (CA INDEX NAME)



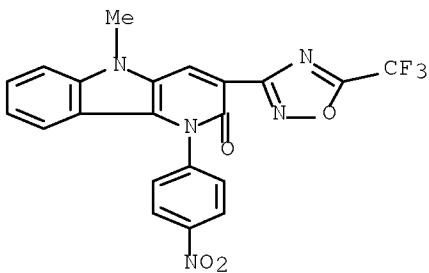
RN 698396-94-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-[5-(1,1-dimethylethyl)-1,2,4-oxadiazol-3-yl]-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)

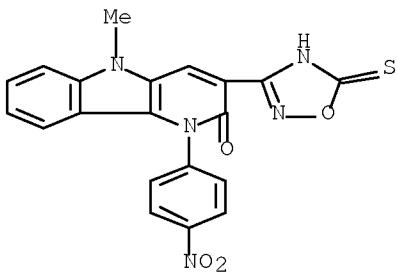


RN 698396-95-1 CAPLUS

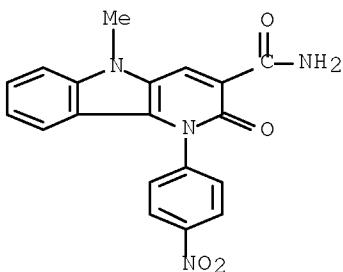
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)-3-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)



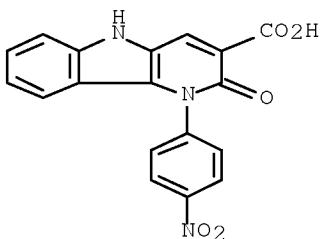
RN 698396-96-2 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-methyl-1-(4-nitrophenyl)-1,2,4-oxadiazol-3-yl)-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-1,2,4-oxadiazol-3-yl (CA INDEX NAME)



RN 698396-99-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

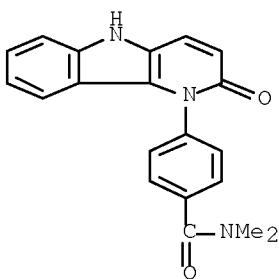


RN 698397-00-1 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



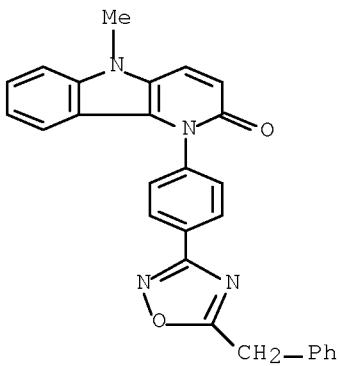
RN 698397-01-2 CAPLUS

CN Benzamide, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N,N-dimethyl-
(CA INDEX NAME)



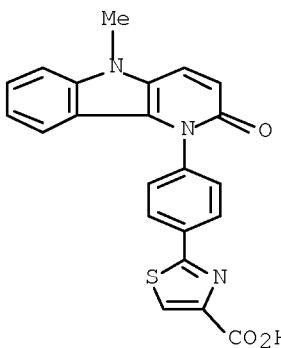
RN 698397-02-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(phenylmethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



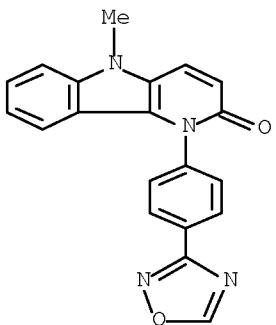
RN 698397-03-4 CAPLUS

CN 4-Thiazolecarboxylic acid, 2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]- (CA INDEX NAME)



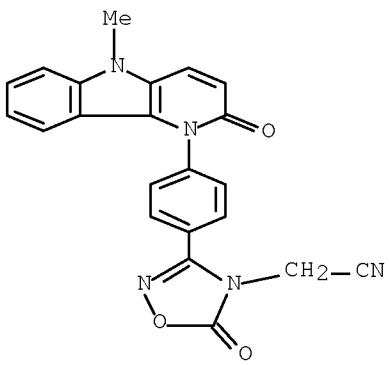
RN 698397-04-5 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



RN 698397-06-7 CAPLUS

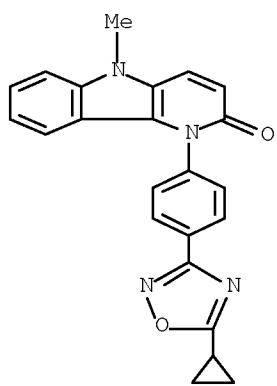
CN 1,2,4-Oxadiazole-4(5H)-acetonitrile, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-5-oxo- (CA INDEX NAME)



RN 698397-07-8 CAPLUS

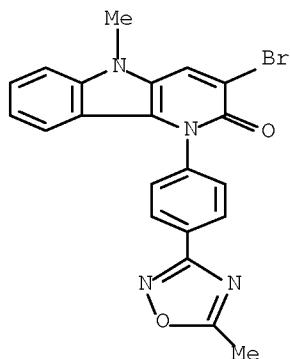
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-cyclopropyl-1,2,4-oxadiazol-3-

y1)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



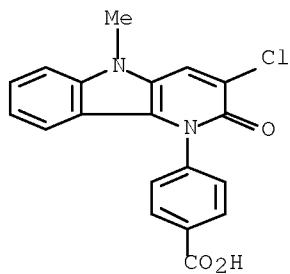
RN 698397-08-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)

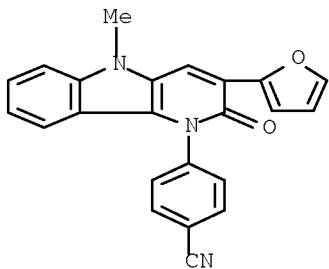


RN 698397-09-0 CAPLUS

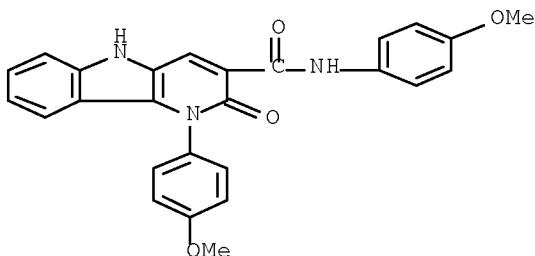
CN Benzoic acid, 4-(3-chloro-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



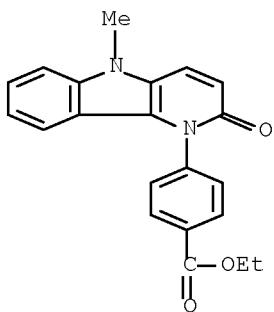
RN 698397-10-3 CAPLUS
CN Benzonitrile, 4-[3-(2-furanyl)-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl]- (CA INDEX NAME)



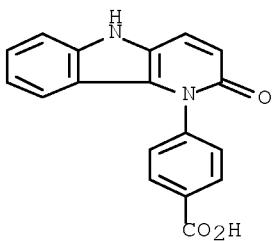
RN 698397-12-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-N,1-bis(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 698397-14-7 CAPLUS
CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl ester (CA INDEX NAME)

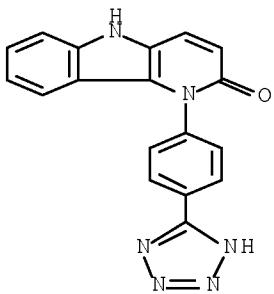


RN 698397-16-9 CAPLUS
CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



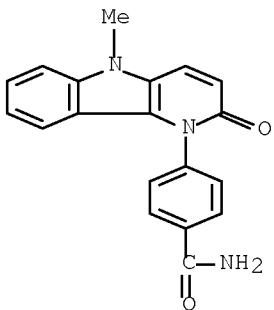
RN 698397-17-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(2H-tetrazol-5-yl)phenyl]-
(CA INDEX NAME)



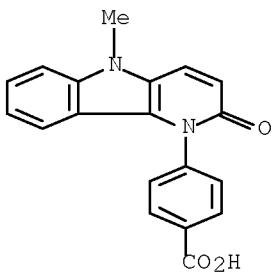
RN 698397-20-5 CAPLUS

CN Benzamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA
INDEX NAME)



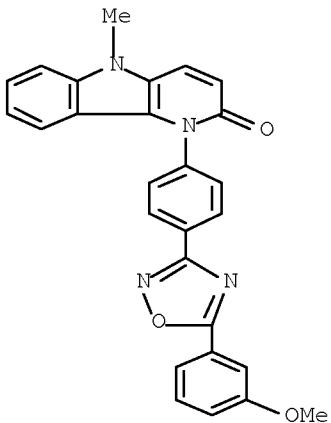
RN 698397-21-6 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-
(CA INDEX NAME)



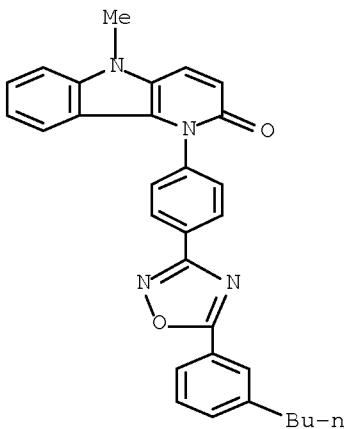
RN 698397-22-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(3-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)

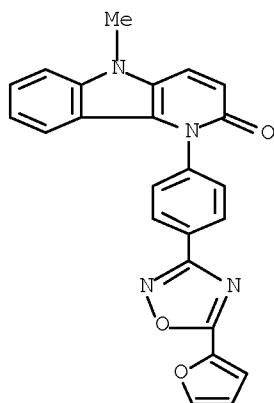


RN 698397-23-8 CAPLUS

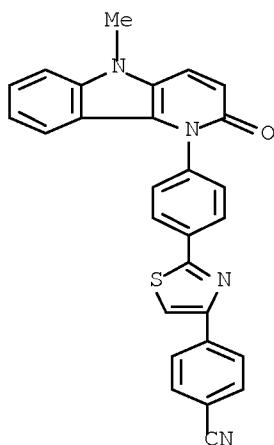
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3-butylphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



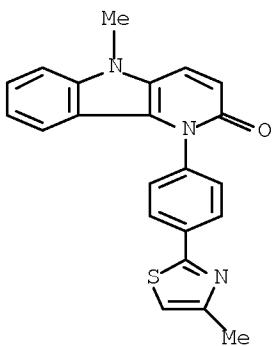
RN 698397-24-9 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(2-furanyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-26-1 CAPLUS
CN Benzonitrile, 4-[2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-4-thiazolyl]- (CA INDEX NAME)

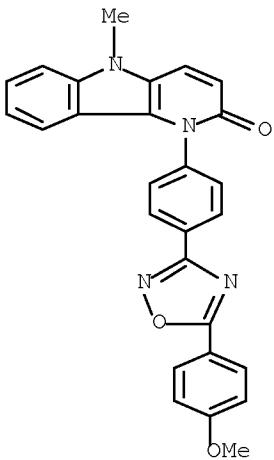


RN 698397-27-2 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(4-methyl-2-thiazolyl)phenyl]- (CA INDEX NAME)



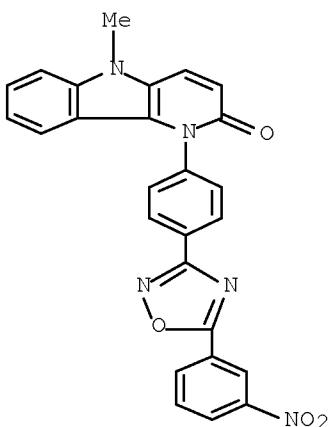
RN 698397-28-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(4-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)



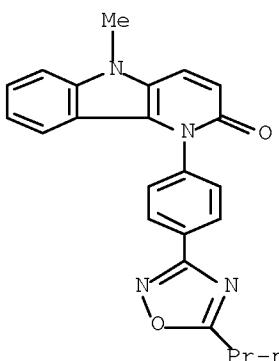
RN 698397-29-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(3-nitrophenyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



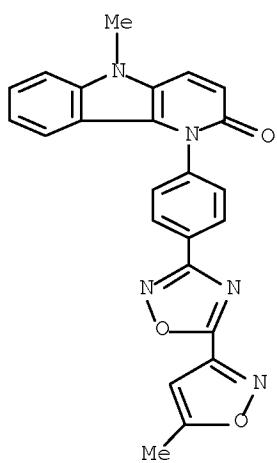
RN 698397-30-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-propyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



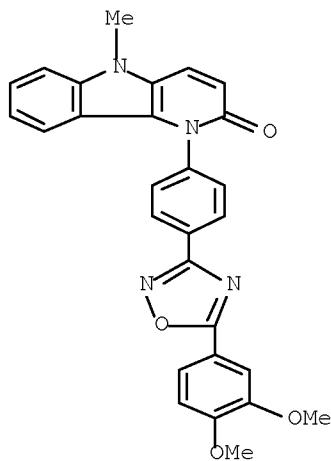
RN 698397-31-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(5-methyl-3-isoxazolyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



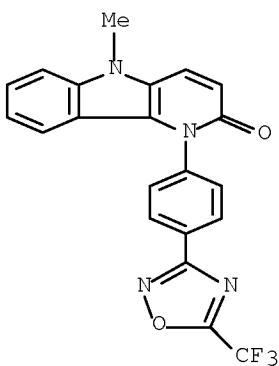
RN 698397-32-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3,4-dimethoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



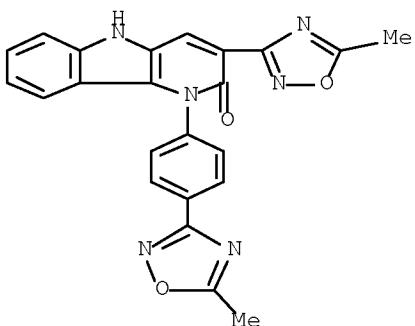
RN 698397-33-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



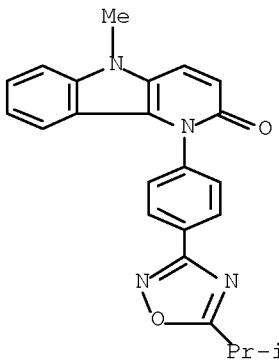
RN 698397-34-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



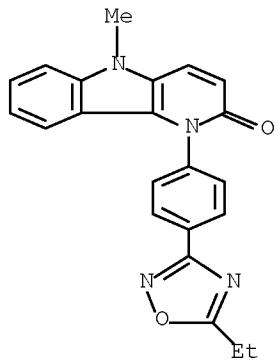
RN 698397-35-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(1-methylethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



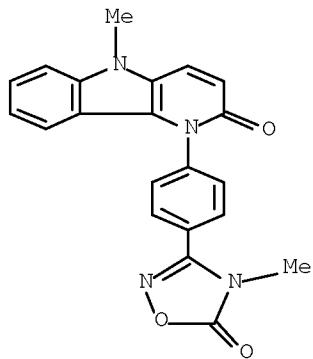
RN 698397-36-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-ethyl-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



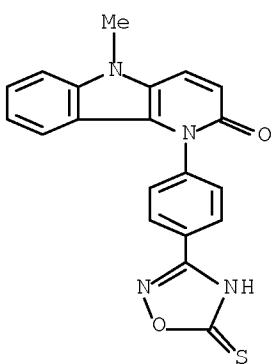
RN 698397-37-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(4,5-dihydro-4-methyl-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



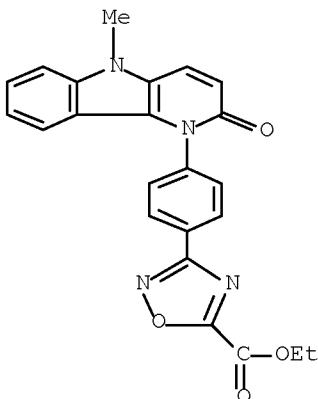
RN 698397-38-5 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-thioxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



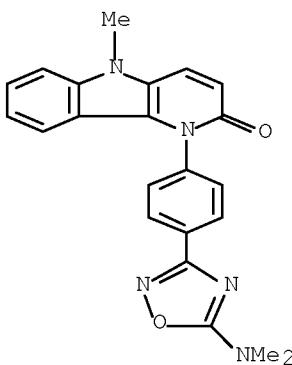
RN 698397-39-6 CAPLUS

CN 1,2,4-Oxadiazole-5-carboxylic acid, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-, ethyl ester (CA INDEX NAME)

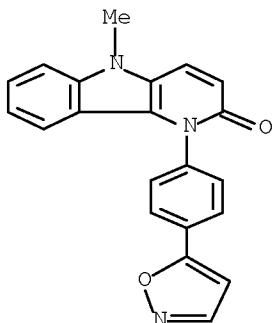


RN 698397-40-9 CAPLUS

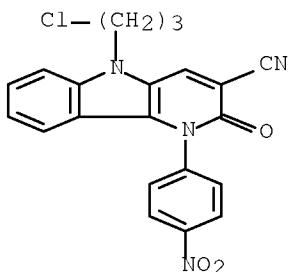
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(dimethylamino)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-42-1 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(5-isoxazolyl)phenyl]-5-methyl- (CA INDEX NAME)



IT 698397-46-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)
RN 698397-46-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-chloropropyl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:30565 CAPLUS Full-text
DOCUMENT NUMBER: 141:243275
TITLE: Synthesis of derivatives of a new heterocyclic system, indolo[2,3-f][1,7]naphthyridine
AUTHOR(S): Rastorgueva, N. A.; Ryabova, S. Yu.; Lisitsa, E. A.; Alekseeva, L. M.; Granik, V. G.
CORPORATE SOURCE: Scientific Research Institute of Organic Intermediates and Dyes, Federal State Unitary Enterprise State Scientific Center, Moscow, 123995, Russia
SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (2003), 52(10), 2149-2156
CODEN: RCBUEY; ISSN: 1066-5285
PUBLISHER: Kluwer Academic/Consultants Bureau

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 141:243275

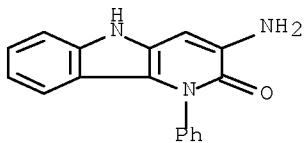
AB 3-(N-Aryl-N-chloroacetyl)amino-2-formylindoles were converted into 3-amino-1-aryl-2-oxo-1,2-dihydropyrido[3,2-b]indoles, which were used to synthesize derivs. of a new heterocyclic system, namely, indolo[2,3-f][1,7]naphthyridine. The structures of the resulting compds. were proved by IR and 1H NMR spectroscopy and mass spectrometry.

IT 474642-19-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of indolonaphthyridines via conversion of corresponding aminoaryloxodihydropyridoindoless)

RN 474642-19-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1,5-dihydro-1-phenyl- (CA INDEX NAME)

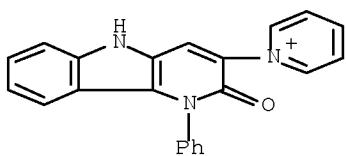


IT 474089-16-2P 578697-68-4P 696647-33-3P
696647-49-1P 696647-56-0P 749920-83-0P
749920-84-1P 749920-85-2P 749920-86-3P
749920-88-5P 749920-89-6P 749920-91-0P
749920-92-1P 749920-93-2P 749920-94-3P
749920-95-4P 749920-96-5P 749920-97-6P
749920-98-7P 749921-00-4P 749921-01-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of indolonaphthyridines via conversion of corresponding aminoaryloxodihydropyridoindoless)

RN 474089-16-2 CAPLUS

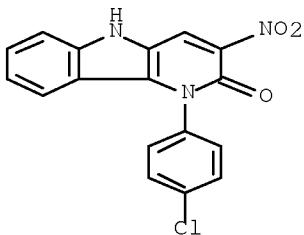
CN Pyridinium, 1-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)-, chloride (1:1) (CA INDEX NAME)



● cl-

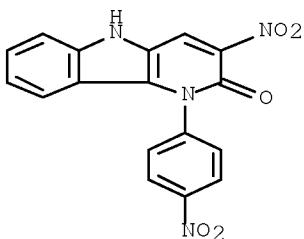
RN 578697-68-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-chlorophenyl)-1,5-dihydro-3-nitro- (CA INDEX NAME)



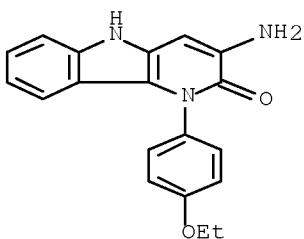
RN 696647-33-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-nitro-1-(4-nitrophenyl)- (CA INDEX NAME)



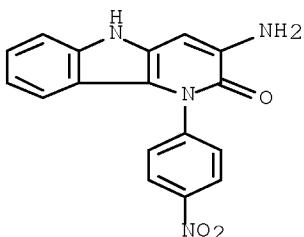
RN 696647-49-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1-(4-ethoxyphenyl)-1,5-dihydro- (CA INDEX NAME)



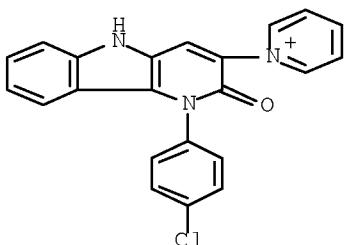
RN 696647-56-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1,5-dihydro-1-(4-nitrophenyl)- (CA INDEX NAME)



RN 749920-83-0 CAPLUS

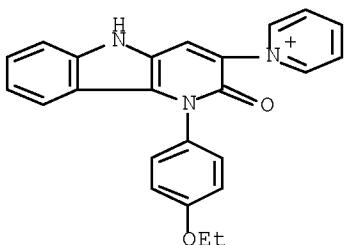
CN Pyridinium, 1-[1-(4-chlorophenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl]-, chloride (1:1) (CA INDEX NAME)



● Cl⁻

RN 749920-84-1 CAPLUS

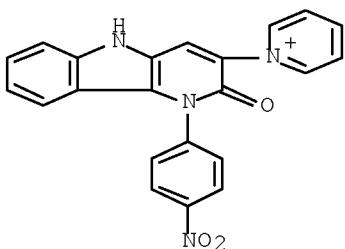
CN Pyridinium, 1-[1-(4-ethoxyphenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl]-, chloride (1:1) (CA INDEX NAME)



● Cl⁻

RN 749920-85-2 CAPLUS

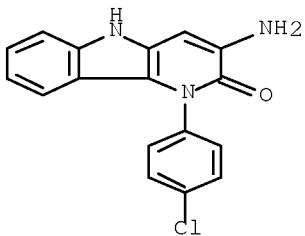
CN Pyridinium, 1-[2,5-dihydro-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-3-yl]-, chloride (1:1) (CA INDEX NAME)



● Cl⁻

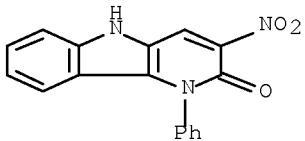
RN 749920-86-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1-(4-chlorophenyl)-1,5-dihydro- (CA INDEX NAME)



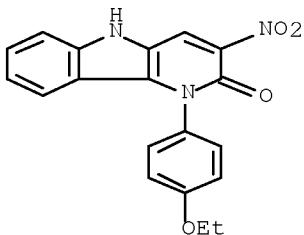
RN 749920-88-5 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-nitro-1-phenyl- (CA INDEX NAME)



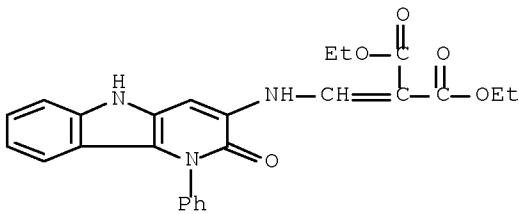
RN 749920-89-6 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-ethoxyphenyl)-1,5-dihydro-3-nitro- (CA INDEX NAME)



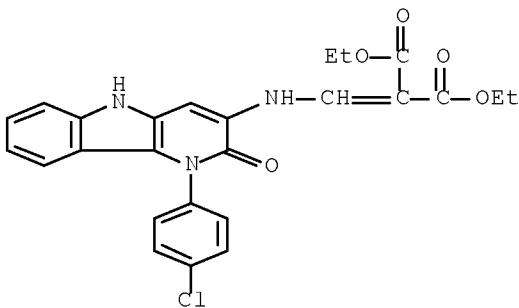
RN 749920-91-0 CAPLUS

CN Propanedioic acid, 2-[(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)amino]methylene]-, 1,3-diethyl ester (CA INDEX NAME)



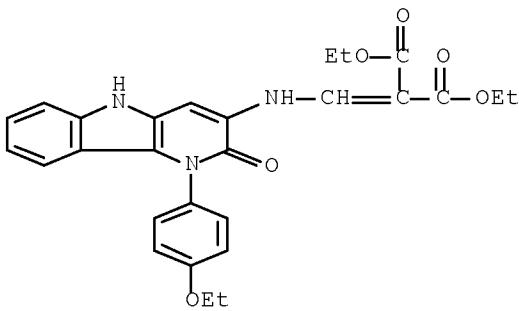
RN 749920-92-1 CAPLUS

CN Propanedioic acid, 2-[(1-(4-chlorophenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl)amino]methylene]-, 1,3-diethyl ester (CA INDEX NAME)



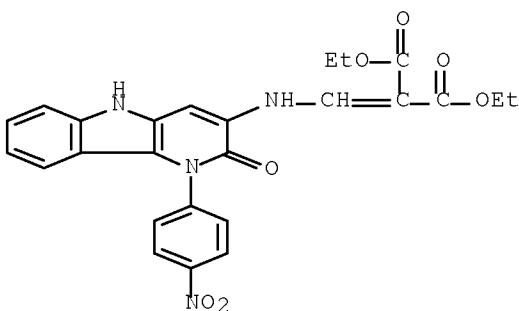
RN 749920-93-2 CAPLUS

CN Propanedioic acid, 2-[(1-(4-ethoxyphenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl)amino]methylene]-, 1,3-diethyl ester (CA INDEX NAME)



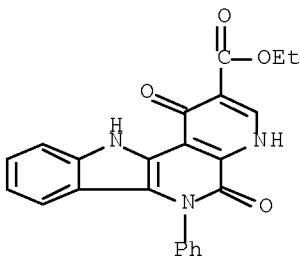
RN 749920-94-3 CAPLUS

CN Propanedioic acid, 2-[[2,5-dihydro-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-3-yl]amino]methylene]-, 1,3-diethyl ester (CA INDEX NAME)



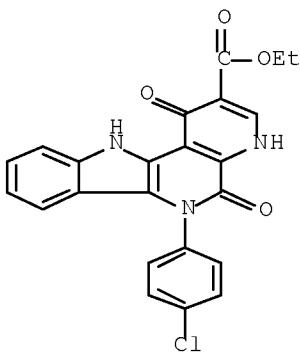
RN 749920-95-4 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 4,5,6,11-tetrahydro-1,5-dioxo-6-phenyl-, ethyl ester (CA INDEX NAME)



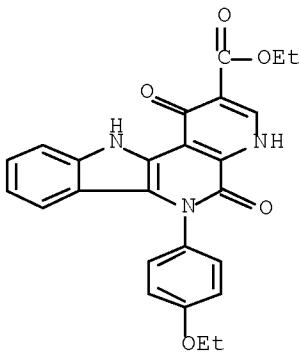
RN 749920-96-5 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6-(4-chlorophenyl)-4,5,6,11-tetrahydro-1,5-dioxo-, ethyl ester (CA INDEX NAME)



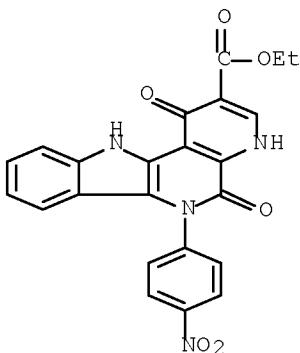
RN 749920-97-6 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6-(4-ethoxyphenyl)-4,5,6,11-tetrahydro-1,5-dioxo-, ethyl ester (CA INDEX NAME)



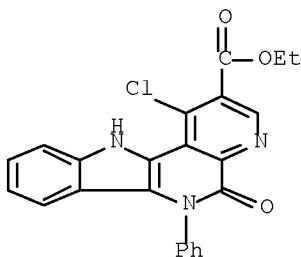
RN 749920-98-7 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 4,5,6,11-tetrahydro-6-(4-nitrophenyl)-1,5-dioxo-, ethyl ester (CA INDEX NAME)



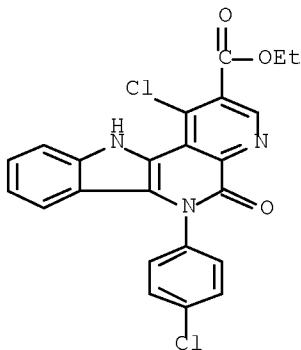
RN 749921-00-4 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 1-chloro-6,11-dihydro-5-oxo-6-phenyl-, ethyl ester (CA INDEX NAME)



RN 749921-01-5 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 1-chloro-6-(4-chlorophenyl)-6,11-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



IT 474642-22-3P 700848-07-3P 700848-08-4P

749920-87-4P 749920-90-9P 749920-99-8P

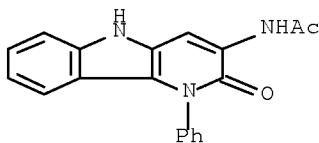
749921-02-6P 749921-03-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

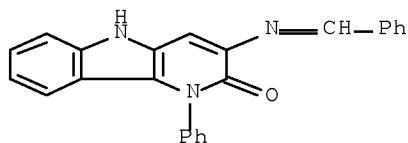
(preparation of indolonaphthyridines via conversion of corresponding
aminoaryloxodihydropyridoindoles)

RN 474642-22-3 CAPLUS

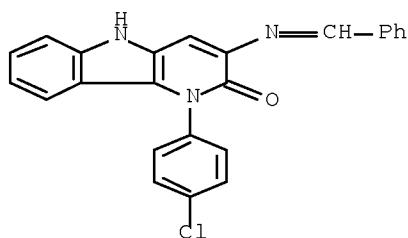
CN Acetamide, N-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)- (CA INDEX NAME)



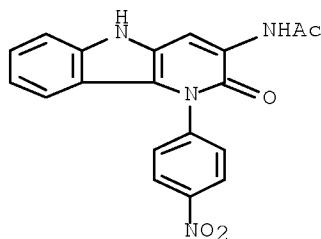
RN 700848-07-3 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-phenyl-3-[(phenylmethylene)amino]- (CA INDEX NAME)



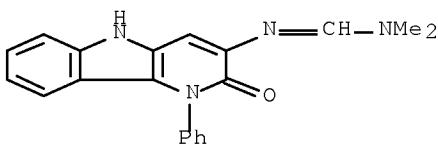
RN 700848-08-4 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-chlorophenyl)-1,5-dihydro-3-[(phenylmethylene)amino]- (CA INDEX NAME)



RN 749920-87-4 CAPLUS
CN Acetamide, N-[2,5-dihydro-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-3-yl]- (CA INDEX NAME)

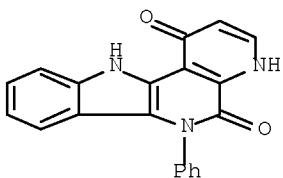


RN 749920-90-9 CAPLUS
CN Methanimidamide, N'-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)-N,N-dimethyl- (CA INDEX NAME)



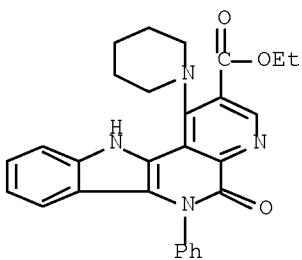
RN 749920-99-8 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-1,5(4H)-dione, 6,11-dihydro-6-phenyl- (CA INDEX NAME)



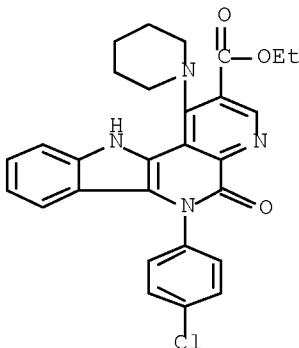
RN 749921-02-6 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6,11-dihydro-5-oxo-6-phenyl-1-(1-piperidinyl)-, ethyl ester (CA INDEX NAME)



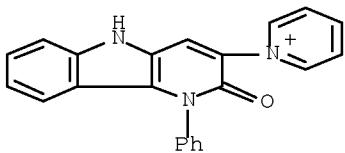
RN 749921-03-7 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6-(4-chlorophenyl)-6,11-dihydro-5-oxo-1-(1-piperidinyl)-, ethyl ester (CA INDEX NAME)



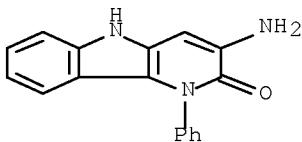
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:483896 CAPLUS Full-text
 DOCUMENT NUMBER: 137:352993
 TITLE: Synthesis and properties of [1,4]diazepino[6,5-b]indoles
 AUTHOR(S): Lantsetti, N. A.; Ryabova, S. Yu.; Alekseeva, L. M.;
 Shashkov, A. S.; Granik, V. G.
 CORPORATE SOURCE: State Scientific Center of the Russian Federation
 "Organic Intermediate Products and Dyes Institute"
 (NIOPIK), Moscow, 103787, Russia
 SOURCE: Russian Chemical Bulletin (Translation of Izvestiya
 Akademii Nauk, Seriya Khimicheskaya) (2002) 51(3), 506-512
 CODEN: RCBUEY; ISSN: 1066-5285
 PUBLISHER: Kluwer Academic/Consultants Bureau
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:352993
 AB 1-Aryl-2-oxo-1,2,3,6-tetrahydro[1,4]diazepino[6,5-b]indole N-oxides were
 synthesized based on 3-(N'-aryl-N'-chloroacetyl)amino-2-formylindoles.
 Deoxidn. of 2-oxo-1-phenyl-1,2,3,6-tetrahydro[1,4]diazepino[6,5-b]indole N-
 oxide afforded 1,2,3,6-tetrahydro- and 1,2,3,4,5,6-
 hexahydro[1,4]diazepino[6,5-b]indole derivs. A new approach to the synthesis
 of pyrido[3,2-b]indole and pyrimido[5,4-b]indole derivs. was developed.
 IT 474089-16-2P 474642-19-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and properties of [1,4]diazepino[6,5-b]indoles)
 RN 474089-16-2 CAPLUS
 CN Pyridinium, 1-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)-,
 chloride (1:1) (CA INDEX NAME)

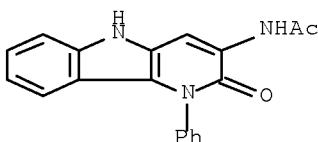


● Cl⁻

RN 474642-19-8 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1,5-dihydro-1-phenyl- (CA INDEX
NAME)



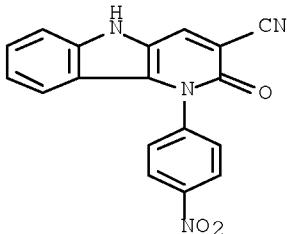
IT 474642-22-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of [1,4]diazepino[6,5-b]indoles)
RN 474642-22-3 CAPLUS
CN Acetamide, N-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)- (CA
INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:100282 CAPLUS Full-text
DOCUMENT NUMBER: 137:33234
TITLE: New approach to the functionalization of
δ-carboline derivatives
AUTHOR(S): Ryabova, S. Yu.; Alekseeva, L. M.; Lisitza, E. A.;
Shashkov, A. S.; Chernyshev, V. V.; Tichomirova, G.
B.; Gozman, M. S.; Granik, V. G.
CORPORATE SOURCE: Russian Federation State Scientific Center "Scientific
Research Institute of Organic Intermediates and Dyes",
Moscow, 103787, Russia
SOURCE: Russian Chemical Bulletin (Translation of Izvestiya

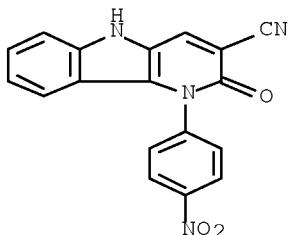
Akademii Nauk, Seriya Khimicheskaya) (2001),
 50(8), 1449-1456
 CODEN: RCBUEY; ISSN: 1066-5285
 PUBLISHER: Kluwer Academic/Consultants Bureau
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:33234
AB The possibility of transformation of 3-cyano-1-p-nitrophenyl- δ -carbolin-2-one into 2-amino-3-cyano-1-p-nitrophenyl-1H-pyrido[3,2-b]indole derivs. and 2-imino-3-cyano-1-p-nitrophenyl-5H-pyrido[3,2-b]indole derivs. (δ -carbolines) is demonstrated. Methylation of 1-p-nitrophenyl-2-piperidino-1H- δ -carboline followed by treatment with acetone in an alkaline medium yields 4-acetonyl-5-methyl-1,4-dihydro-5H-pyrido[3,2-b]indole derivative. The rearrangement of 2-arylimino-3-cyano-1-p-nitrophenyl-5H-pyrido[3,2-b]indoles into 2-(aryl)nitrophenylamino-3-cyano-5H-pyrido[3,2-b]indoles was accomplished on heating above the m.p. or on treatment with potassium tert-butoxide. The structures of the resulting compds. were proven by 1H and 13C NMR spectroscopy and x-ray diffraction anal.
IT 304465-35-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (new approach to the functionalization of δ -carboline derivs. via methylation followed by rearrangement)
RN 304465-35-8 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
 (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

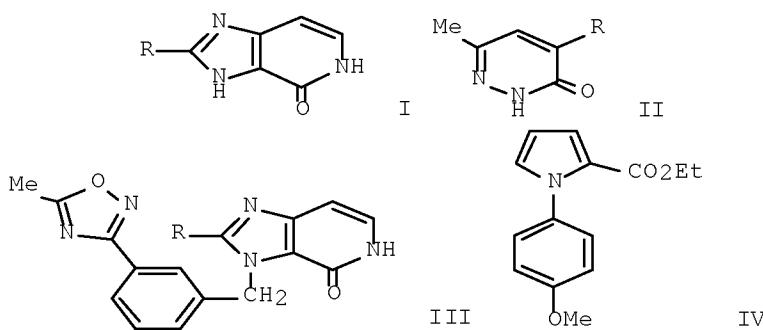
L11 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:643354 CAPLUS Full-text
 DOCUMENT NUMBER: 133:335174
 TITLE: 1H-Pyrido[3,2-b]indoles. Synthesis and investigation of some their spectroscopic and chemical properties
 AUTHOR(S): Ryabova, S. Yu.; Alekseeva, L. M.; Granik, B. G.
 CORPORATE SOURCE: RF State Scientific Center "NIOPIK", Moscow, 103787, Russia
 SOURCE: Chemistry of Heterocyclic Compounds (New York) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2000), 36(3), 301-306
 CODEN: CHCCAL; ISSN: 0009-3122
 PUBLISHER: Consultants Bureau
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:335174

AB On boiling in CF₃CO₂H, 2-(2-cyanovinyl)-3-[(4-nitrophenyl)amino]indoles are cyclized into the corresponding pyrido[3,2-b]indoles through activation of the CN group. Thermal cyclization of an Et α -cyano- β -indolylacrylate occurs with participation of the more reactive CO₂Et group to give the resp. 3-cyanopyrido[3,2-b]indole.
 IT 304465-35-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of pyrido[3,2-b]indoles)
 RN 304465-35-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
 (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:684895 CAPLUS Full-text
 DOCUMENT NUMBER: 132:64217
 TITLE: N-Aryl heterocycles via coupling reactions with arylboronic acids
 AUTHOR(S): Mederski, Werner W. K. R.; Lefort, Marina; Germann, Martina; Kux, Dieter
 CORPORATE SOURCE: Preclinical Pharmaceutical Research, Merck KGaA, Darmstadt, 64271, Germany
 SOURCE: Tetrahedron (1999), 55(44), 12757-12770
 CODEN: TETRAB; ISSN: 0040-4020
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 132:64217
 GI



AB Compds. having a partial 2-pyridone structure, e.g., I ($R = H, CHMe_2, n\text{-}Bu$), or 3-pyridazinones, II ($R = H, Me$), can be selectively N-arylated with phenylboronic acids according to the procedure described by Chan and Lam. This procedure leads to N5-arylated imidazo[4,5-c]pyridin-4-ones, e.g., III, precursors of potent factor Xa inhibitors. In addition, the synthesis of N-aryl substituted pyrrole- and indole-2-carboxylic acid esters, e.g., IV, is described. In the indole series, this procedure offers a flexible entry in the synthesis of different 1,3-diaryl-2- carboxyindoles.

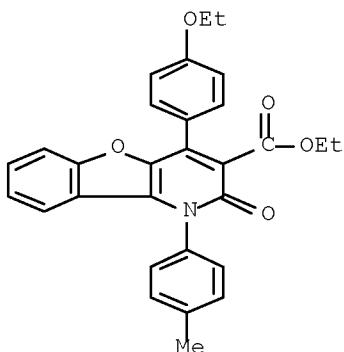
IT 253274-08-7P 253274-11-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of N-aryl heterocycles via coupling with arylboronic acids)

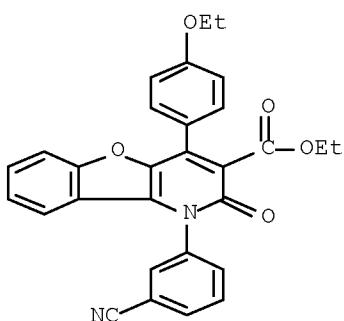
RN 253274-08-7 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carboxylic acid, 4-(4-ethoxyphenyl)-1,2-dihydro-1-(4-methylphenyl)-2-oxo-, ethyl ester (CA INDEX NAME)



RN 253274-11-2 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carboxylic acid, 1-(3-cyanophenyl)-4-(4-ethoxyphenyl)-1,2-dihydro-2-oxo-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT:

19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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CA SUBSCRIBER PRICE	0.00	-8.80	

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